

## SEQUENCE LISTING

<110> Sun, Yongming  
 Recipon, Herve  
 Salceda, Susana  
 Liu, Chenghua  
 Turner, Leah

## <120> Compositions and Methods Relating to Breast Specific Genes and Proteins

<130> DEX-0247

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<150> 60/243,805

<151> 2000-10-27

&lt;160&gt; 266

&lt;170&gt; PatentIn Ver. 2.1

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<213> Homo sapiens
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ggcacacaag tgtttaatga gtatttaact gatttgcata agaataaatt cattgatttc 180
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<210> 23
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<212> DNA
<213> Homo sapiens
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<212> DNA  
<213> Homo sapiens

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gagaaacaga gaaagagaga aaggaaaaga aagwtaagag aaaagaaaga aaggaaaaaa 540  
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tctactgtac acttgtgagc aaatgagagt gaaaaaggca tataacgtct tagcattatg 180  
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ttgttaggta	cagtgttctg	tgtgccctgg	taaatcaaat	tggcttatcg	tgccccctca	240
agtgc						246

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<210> 27
<211> 190
<212> DNA
<213> Homo sapiens
```

<400> 27  
cagataaata tcagatgagt caggagggtta cctgactcct aggttaccaa tattacctga 60



<220>  
 <221> unsure  
 <222> (806)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (818)..(819)  
 <223> a, c, g or t

<400> 29  
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 aatacagggtc tgattatgta caattccaga aatatacatta attaatcacc actcattttt 180  
 aagatgtgtg aagactgtaa tattggctag tgaattttat cagtattaat atgcatagaa 240  
 cccacattcc tctttttgat ttgatgtatt atagcatgta tgtattgcta tttttctctt 300  
 tttttgaagt ggtgaggaat catgcacagt caatatgctg gggttccttta gaaatgactt 360  
 tagctcctgt ctgaaggcag gaaaaacttc tttttaagga actttcatca ttgcctttta 420  
 ctttttctat gatgggtttt atgagcactg aaatcacttg gagaggcaat gcaaagaaat 480  
 ctatctgaaa cagcttcttg gcaccctgga gttacagcta tgaagggtc caacgtaagg 540  
 gaagcttaat gcttccgaat attgacattg actccttggg tgaatttttg tccaaatata 600  
 aaattcttca tgttcaacaa ctaaatgtaa taaatgaatt tcatatatac ttacatgata 660  
 tctttgagat taaattaatt atccttttgt aggaactgac agctttgggt agattatttt 720  
 ttcagttgaa atgtgttgct aacaatatgc ttacacttga acgctgtttt tcatattgat 780  
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<210> 30  
 <211> 682  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
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 tacactttct tccttacttt cctcttttcc cattgtcctt ccttaaagac tagcagcagc 180  
 agaatttgga aaataaataa tgggcatggt ttgctaataa tcatgacaaa ctataataat 240  
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 ggtaaaatat agtgattcac ctgcagtttt gggtacaggt ttcattattac ataataaagg 360  
 gagaacttga gccccacctt tccccagtg ttttccttgc ataggcaacc tctgctgctt 420  
 aaatgttttg gagactttgg gatgtctgat ttcaactgta ccgtgaaaca ggtagtgggt 480  
 tgacttagta agcatctgaa ggactgtttt gttctactct tgcagagtag agtagttttc 540  
 aaaaggaaag gaaaggaatt gttgagtggg acctatgaag tatagcagga tggatagaat 600  
 atgaggcaga tgggtcctag tttgctaaag agcttgggccc gtctgataag ttgtctttct 660  
 tgccaaacaa gggagtcacg tg 682

```
<210> 31
<211> 1498
<212> DNA
<213> Homo sapiens
```

<400> 31						
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tcttttactt	aattactttt	tttttttttt	ttttgtagag	atgggggtctt	attatgttgc	300
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```
<210> 32
<211> 447
<212> DNA
<213> Homo sapiens
```

<400>	32						
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aggtatgcag	gcgctgtggg	attacttggt	tgtttatgta	aaaattat	tgcactcact	180	
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acctgcactg	tttgctgtaa	atttaagctt	aaaattgaaa	ccagggttatc	agcatttcat	300	
gccaggagag	agtgggcatg	aatgatttca	ggaaatgaag	agctagattt	cagccttgaa	360	
tttgcttcca	cccttctgtg	gcaaattagt	gtgggctcac	tgagcacttt	atctgcccg	420	
ggtaatttat	tttaccagac	aggggtgt				447	

<210> 33  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<400> 33  
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 gtactttatc acccatgggg tgttaaaaat acagttttaa aatacagtct ttcacatgtc 120  
 ctacaaagtg ctagaaaaaa aatttttaaaa attgacgggg cgcaggggct gatgcc 176

<210> 34  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (28)  
 <223> a, c, g or t

<400> 34  
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 tgctctgtat ctcaattact gttcttcatt tcaattattc ttacctacta ttcagttccc 120  
 ttgatctttt cttcttgggg gctgtcttag ggtcagggag attgcagaag caccagaact 180  
 aggagcagcc ctgagacatg gggagttgga gctgaaggag gaatggcagg atgaagaatt 240  
 ccctaggtga ggacgtgtga ggggtggctgg gagaagggag ggggtggcac gaatggacgg 300  
 aggggat 307

<210> 35  
 <211> 1104  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
 caacagctga gacagaaaag aggtaaggaa gtgttggggg ctgggacaac cagctcccca 60  
 acaactccta ggtgttttaa gaaggaggca ggaagacttg tgaagatggg aactatacaa 120  
 gaggcaggaa aaaagacaga tgttgggtaa gtaagatctt ggctcacttg attggtaaca 180  
 gtgaataaac agtccggaga gacttcccca ccaccagct cttactgggt caaatctcgg 240  
 gttcctcaag gagacaagac tgtaagagag tttgcagaga agagatgagg gtgggttttag 300  
 gtaggaaatg tcagtatggt atggaactgg ggaacaggat tccaggataa ttccctgggt 360  
 taaaaataaa ggaagtttct gtaatatgtt gtacctgata aatctgcctg tgttctttta 420  
 ttttctaacc ctcaccctcc agaatgtcca tcaggaaagt ctgaaccaga accgagttta 480  
 ggtccagggt ctcgttctgg caaatcttct tcttacctt cttcctccac ccctccacct 540  
 atgccatgtt ttcccttagc cactcccag ctcggtggag gaaaggcagg cctaactagg 600  
 taccgtcttc ccgactttgc tcaatgatag ctgggtgggt ctagctgggt tccagccact 660



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gcagaagcac	cagaactagg	agcagccctg	agacatgggg	agttggagct	gaaggaggaa	1020
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tggtcacgaa	tggacggagg	ggat				1104

```
<210> 36
<211> 1020
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (444) .. (485)  
<223> a, c, g or t
```

<400> 36						
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ggggcagtta	acagatgaaa	ataacctctc	caaagtgcgc	tgaagaggct	caacctaaag	180
tggctggaac	tttgcttata	aaataatata	ttacatttgg	ttactaaaac	actagggtttc	240
ctttaattga	agaatcccag	tttgagtgtt	tctcaagtac	agtgagtttc	aaaggatagt	300
ggtagctagt	agtattagt	aaaatagtca	taactagcat	ttattgaata	ttatttgcca	360
aaacgtgcct	aacaatttta	catgtattat	ctcatttaac	cagcacaaagc	aaccctatga	420
gaggtgaatt	attgttatcc	aaannnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnttttt	agtattacac	agaagatctg	ggactcaaaa	ttaacaggct	attatcaaga	540
acattttatga	agggaccaca	ttatatatga	cagcggttga	tgtccagtga	attttgcatg	600
atacggagtt	gaattagtcc	ctggcttcaa	ggactttcct	ttctctttta	tcctttctat	660
tctgttcaca	cttttcttct	agatactgga	actataagcc	caaaactact	taacatgaaa	720
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tgatttcttg	gggttttgtt	cttgctatatt	tcaagctaaa	atgcaccctc	gggattgcag	900
atggtcataa	gaaaaattat	caagtgaaaa	gttaaccact	gccaaaactca	tatgattgaa	960
aattggccat	tgttatgttt	agaatatttt	ttgtgcattt	gcaattaaga	ataaaaagtc	1020

```
<210> 37
<211> 1347
<212> DNA
<213> Homo sapiens
```

<400> 37  
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aatgcctatg tqctctcctg tagcctcact gcgtgctgtt gtgcactgca cctctaatg 120

```

ggggcagtta acagatgaaa ataacctctc caaagtgcgc tgaagaggct caacctaaag 180
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ctttaattga agaatcccag tttgagtgtt tctcaagtac agtgagtttc aaaggatagt 300
ggtagctagt agtatttagt aaaatagtca taactagcat ttattgaata ttatttgcca 360
aaacgtgcct aacaatttta catgtattat ctcatttaac cagcacaagc aaccctatga 420
gaggtgaatt attgttatcc aaatttaaag atgaggaaaa tgaagctcag aaatgtgaaa 480
tgaccttttt agtattacac ggaagatctg ggactcaaaa ttaacaggct attatcaaga 540
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atacggaggt gaattagtcc ctggcttcaa ggactttcct ttctctttta tcccttctat 660
tctgttcaca cttttcttct agatactgga actataagcc caaaactact taacatgaaa 720
gacttttaggt acacgattcc ccactggcag ctgctttaat ggtgaaggat ttcttgagta 780
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agaatttaaa aatgaaaaaa agaaaagaaa aagccacttc accaaacatt tcctaaaatt 1080
cacagattcc caggggtttg aagacagtat tccaatttg gaatgtagtc ctgactatcc 1140
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ctcaatgcag gaattctctc taaagcctcc tcaacaggcg gccaaccccc atatccgcct 1260
gaatgcttcc agagaaggcg agtcgaatcc tttgttggac agccctgatt gtttttctctg 1320
atgttggtga tgggccttga gaaaaag                                     1347

```

<210> 38  
 <211> 141  
 <212> DNA  
 <213> Homo sapiens

```

<400> 38
caggatgcgg ccatacgaaa gaactccatc aaactccctt cccaatata aaccctcat 60
tctgtaagct tggggctact tcctctctga ctgttaaggg agcagccagc aggttaataa 120
aaagttacct gcctaaaaaa a                                     141

```

<210> 39  
 <211> 839  
 <212> DNA  
 <213> Homo sapiens

```

<400> 39
aatgagcctt tggtctagct actctgttct atataggota cacttgcaaa tcaaattcct 60
ctgtcaatga ctttcaatgc tatctctaag aaattcctcc aggagtctgt ctgtcccatg 120
ctagaagcct cagaactgtg cctctgtgtt tttatcctgg acacaatctg cctagaagggt 180
cttcccaaaa ctctgtgctg ctgaattcat acctgggtatc tctctcccc agcttagtgt 240
aaacttagtg cagggacttt atcttgctc accaatgtct tcgccacca agaataatgc 300
ttggcacaca agagggggcc aatacatatt tatgaaatga atgtagactt aggatatgtg 360
tctgtttttt gatatgtttc ctgagtgttc agtgttcttc ccaggattc cctgactcca 420
aaccagccct ctgttaggga caaactgccc aagaaacctt cttggtgctg tccaccatc 480

```

```

ccccaaagcct ctttacattt ctaagccctc acctagggcac cacggtgaag ccagcagact 540
ttgcttatca gaccttgctg caatagccac acccccatta caaaccccc caccctgcac 600
aggggggaggt catgggaaac ataaacaaac tttacctaca cctcctgta ataaacgtca 660
caaggtaata ttagcaaaa ttaaccagca aacaacccca ggatgcggcc atacgaaaga 720
actccatcaa actccctcc ccaatataaa cccctcattc tgtaagcttg gggctacttc 780
ctctctgact gttaaggag cagccagcag gttaataaaa agttacctgc ctaaaaaaa 839

```

```

<210> 40
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (463)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (465)
<223> a, c, g or t

```

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<400> 40
cgaggccca catatgcctt tgaagagctg aagtttgagg tagaaaaact tagtttctcc 60
ttagttttaaa tcccgctctt tgggattgcc attgaacaaa gtatatttaa tgagggataa 120
gtcaaaaatg ttgcaaaatc atagcagtaa gaacaatagc aaccatcatt catgggaccc 180
ttaatctgtg tcagcctctt gggcattttt tcattcagtt ttaacgacaac cctgtcagac 240
ggttaatatg atttgaatct ttgcagtcaa ggaaactgaa tcctaggcag ggtaagtaac 300
ttccccaagg ccaaatagta ttacagtagt taacctttta ttttggtgtt tattttaaagt 360
catcatcaaaa acatattcta atgagcattt attgttgtaa agctctttta gccaggtaag 420
ttcagggcta tccttttaaa gcagtacttt gatgtttttt ttntnttttt ttt 473

```

```

<210> 41
<211> 976
<212> DNA
<213> Homo sapiens

```

```

<400> 41
aatagttcat atagggattt ggccctcgag cagtaattcg gcacgagaga tctttttttt 60
tttttttttt tgagacacgg tcttgctttg tcgcccgggc tggagagcgg tggtagcatc 120
atggctcact atagcctctg cctcccagac tcaaacaatc ctcccacctc agcctgctga 180
ggaacttggg actacaggta taagtgccac tgtgcccagc taatttttgt attttttgt 240
agagacaggg ttccaccatg ttgccaggc tgggtctcaa ttctgggct caaagcaatc 300
ctcctgcctc aacctccaa agtcctggga ttacaggcat gagccaccac acctgctctt 360
catttttact gttttgaatt caacatttgc tccagtatga atcaaattctt gaccaatatc 420
accctaccca atatcctaca ggcagatgcc tcacctccca gagtaactta gaaaaccagt 480

```

```
gccatgagag acccgctcaa tttaaaaaaa aaataaacia aacatcaaag tactgcttta 540
aaaggatagc cctgaactta cctggctaaa agagctttac aacaataaat gctcattaga 600
atatgttttg atgatgactt taaataaaaac acaaaataaa aggttaacta ctgtaatact 660
atgttgccctt ggggaagtta cttaccctgc ctaggattca gtttccttga ctgcaaagat 720
tcaaatcata ttaaccgtct gacagggttg tcgtaaaact gaatgaaaaa atgccaaga 780
ggctgacaca gattaagggc cccatgaatg atggttgcta ttgttcttac tgctatgatt 840
ttgcaacatt tttgacttat ccctcattaa atatactttg ttcaatggca atcccaagag 900
acgggattaa aactaaggag aaactaagtt tttctacctc aaacttcagc tcttcaaagg 960
catatgtggg acctcg 976
```

```
<210> 42
<211> 194
<212> DNA
<213> Homo sapiens
```

```
<400> 42
gtgaaatcaa atcaccattc taaaaaatta ttacttatat tgataaagcc tggattctct 60
caacttgttt tgttttgctt tgcttttttt ctttaaccaa tcaatctctt attgatagat 120
tttgtgtaaa aagatatata ctagtctctt cagaaagatt aacaataaaa attgtgttta 180
tttcaaaaac ataa 194
```

```
<210> 43
<211> 378
<212> DNA
<213> Homo sapiens
```

```
<400> 43
catctaaact tgaataataa agttttacca ccagttacac ataacggcgt tggatatgggt 60
tatatggatt cactttcatc cttctagcaa taggaaatac agatcattgt aatatatata 120
tatatatata tatatatata tatatatata tatatatata tacaggctct gctgaattga 180
aatggtgaaa tcaaatcacc attctaaaaa attattactt atattgataa agcctggatt 240
ctctcaactt gttttgtttt gctttgcttt ttttctttaa ccaatcaatc tcttattgat 300
agattttgtg taaaaagata tatactagtt tcttcagaaa gattaacaat aaaaattgtg 360
tttatttcaa aaacataa 378
```

```
<210> 44
<211> 662
<212> DNA
<213> Homo sapiens
```

```
<400> 44
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tttttccttg caatactctg tagtactact gttctggaat ttcagttctc atgcaacata 120
ccggccctt tgcacagtga aaacgtaagt atgataagtc ccagtatgtg gaagaactag 180
aagaaccag gagttgtgat cctaaacaac ttttaactgg gccttggtat gatttccacg 240
```

```

tgtgatactt tactcattct gagattaaca gtcgcactgg tgaaactgac agccgctata 300
tgccataact aatgtaactt attacaagac aggaagtggag aagagttgtt tgatctagtt 360
gaaaccatgg gggaatttgg gaaagcagag taaatttgc ttttggaag tctgagactt 420
cagagcttgt tattcttgaa gcagttgtta aaagtcagtg gacatcctga ttctcaggtc 480
tccgatgtgg atgtgcatcc tctccggcag catgattttt ccaggaccag aatgtgacag 540
gagcggcccc gcaatagaat tgcaggctca caggccgggt gcagcacttg gctgtattgc 600
gaggctcctt tccagctgct tagttcacat gatgcctggg ttataaaacc tagtgaagtg 660
tt
662

```

<210> 45

<211> 1026

<212> DNA

<213> Homo sapiens

<400> 45

```

cggcacgagg ccggtttttt tttttttttt tttggaatag atgttaagaa cttaggggggt 60
gatgtccaag ggaggtcagt gataccagga cagcacacca tttgcagcac aggagttcag 120
acagcaccgg ccctggattc acacagagga actttctccc aaaagaacca atcaacttct 180
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aatgaggacc cacacactat gataaaagtt aaaaagcaag tcaaagagtt ccttctcttg 360
tactcatatc tgcaccacgt ctagaacaac ttcccttccc aagagaatta aaatacattt 420
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<210> 46

<211> 112

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 249

<212> DNA

<213> Homo sapiens

<400> 47

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gatttatgtg	tgtatgtggg	tgggcgggtg	gcagcttaga	gtaattttta	ttataaaaaa	180
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<210> 48

<211> 768

<212> DNA

<213> Homo sapiens

<400> 48

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<210> 49

<211> 2901

<212> DNA

<213> Homo sapiens

<400> 49

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aatgt	gaatg	tgtgc	ctaaa	caata	cagtg	ctcgat	tttgc	tttaa	gcttt	tattac		420
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<211> 297
<212> DNA
<213> Homo sapiens
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catattaaca	tatctagtga	ttaatgaact	gtagaaggac	aagatggaga	tcagttgtat	240
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<211> 987
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<220>  
<221> unsure





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<223> a, c, g or t
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<223> a, c, g or t
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<223> a, c, g or t
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... ..

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<210> 52
<211> 293
<212> DNA
<213> Homo sapiens
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atgtttactt	ttctattttt	taccttaa	atgtaacact	ggtttgacca	aactctcaga	240
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<212> DNA
<213> Homo sapiens
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<210> 54
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<212> DNA
<213> Homo sapiens
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<210> 55
<211> 2890
<212> DNA
<213> Homo sapiens
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ttgtggcaag tagagaattg catagaaatg catgaatatt acacatttcc tcataaacat 2760
taacattagg attgaacttt ccccaaactc aaaatattat gatacccttt aaataagtat 2820
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<210> 56

<211> 581

<212> DNA

<213> Homo sapiens

<400> 56

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tcatgagtga tgggagagat ctgggcaggc aacctcctct catcctgcat catcagcctg 180
gacttggaaac ttggctgctt tttctttctg cagttagcgg agggccttgg ccaacacata 240
agcctttctg ccagcacttg gcattccagc tgacctcgac ccaaggcctc tgtgacttca 300
ggaggcgcca gctgggaagg gtcagggcag ttccaggcag agcacagacg tcagctcaga 360
catcctaccc cccgccaaacc ccccgcccc ggggtttcca gagcaaccaa caccaccaag 420
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ggcccccaa attgatgtag ggagaggagg gctttgacag cattcagcac tccagagggt 540
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<210> 57
<211> 833
<212> DNA
<213> Homo sapiens
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<400> 57						
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tcatgagtga	tgggagagat	ctgggcaggc	aacctcctct	catcctgcat	catcagcctg	180
gacttggaa	ttggctgctt	tttctttctg	cagttagcgg	agggccttgg	ccaacacata	240
agcctttctg	ccagcacttg	gcattccagc	tgacctcgac	ccaaggcctc	tgtgacttca	300
ggaggcggca	gctgggaagg	gtcagggcag	ttccaggcag	agcacagacg	tcagctcaga	360
catcctaccc	cccgccaa	ccccgcccc	ggggtttcca	gagcaaccaa	caccaccaag	420
ctccaggaca	ctggaaaaaa	aatcttttga	aagaagcaag	gggccatctc	agaaaatcca	480
ggtcccccaa	attgatgtag	ggagaggagg	gctttgacag	cattcagcac	tccagagggg	540
cacgaggata	cagaaacat	ttggagccac	ctctgcttct	cagccccacc	caggcaagcc	600
ctggatcttc	aagggaactga	ttgtgtacct	gggaataaac	tcatgcatgg	atgagattca	660
gagtcaatca	caccctaata	tgcagagccc	atagtattgg	tgagtgtgtc	atgtgtctct	720
gaagcaaatt	tagggctgtg	gttcaa	cgtaaaagtt	aaaaaaaaatt	cactggatac	780
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<210> 58
<211> 473
<212> DNA
<213> Homo sapiens
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<220>  
<221> unsure  
<222> (283)..(372)  
<223> a, c, g or t
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<400> 58									
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cattttgtgc	tgtttttttc	tacatacggt	ttttgggtgc	acccacata	ttctgacatt	120			
ttcattttga	ttctgttcaa	tatactttct	gatttccttc	ttgatttctt	tttggctctg	180			
gaatgtgcta	tttagtttat	gtatatttag	ggatatttca	gagatgtttc	tgtgactggt	240			
acctatttta	attctcatat	ggtcaaagaa	tatactttgt	atgnnnnnnn	nnnnnnnnnn	300			
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360			
nnnnnnnnnn	nntgtgtgtt	ctgccattgt	tgactgaaga	gttataaaat	atcagctagg	420			
tcaagtaagt	catttgagtt	ttcaagtctt	ttatatacct	agtgattttt	cta	473			

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<210> 59
<211> 538
<212> DNA
<213> Homo sapiens
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<220>  
 <221> unsure  
 <222> (355)..(360)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (380)..(382)  
 <223> a, c, g or t

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 ttggcatttt gtgctgtttt tttctacata cgttttttgg tgtcacccca catattctga 180  
 cattttcatt ttgattctgt tcaatatact ttctgatttc cctcttgatt tctttttggt 240  
 cctggaatgt gctatttagt ttatgtatat ttagggatat ttcagagatg tttctgtgac 300  
 tgttacctat ttttaattctc atatggtcaa agaataact ttgtatgaat aacatnnnnn 360  
 aaaaattggt tcaagattgn nntatgacc agaatgtggt atgtcttggt aaatgttcag 420  
 tgtctbcttc aaaaaatgtg tgttctgcca ttgttgactg aagagttata aaatatcagc 480  
 taggtcaagt aagtcatttg agttttcaag tcttttatat ccttagtgat ttttctat 538

<210> 60  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (371)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (378)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (396)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (398)  
 <223> a, c, g or t

<220>

<221> unsure  
 <222> (465)  
 <223> a, c, g or t

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 tgtgagcata tatttgtatt tgaatacaga taccttctga acaagatatg aaagggagtt 180  
 tgagggtctcc ttcataacg ctgtcatcat tttggacaag gaaaatgtta ccagcctgat 240  
 ttcagacagt tataccaaac catctggccc cttaactcaa gtgccttctt cctctatatg 300  
 tagacttgag tccggggcat aaatggaggt caagtaatag actcatcaag ggaagaactt 360  
 tacttcctat ngtgtatnac agtgaaatta taangangnat tcaccataat gtgtataatg 420  
 gcattattca tgttttgaat tgtgactgat gactttgcta taccnggg 468

<210> 61  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 61  
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 ttttagccct ctagataaat attagagag ggtttgctca tgtttttggt attttaattt 180  
 catttcaagc catacacatt taacataaca ctgtacattt taaaagataa attttcattt 240  
 tttctcctct gaaaatgcat tgtaaattta tgctagctta catttgaata ttagtcatct 300  
 gaatccatat cagatttcat gttcttgtaa ctatttaatg tccatttaat cactgagttg 360  
 tatagattga 370

<210> 62  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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 tagttgatat ttaagtggga tggtcattgc agaaagttgg gaagaaagtc tcatcacctc 180  
 actgttagat ttacatatg tttatgtaat tttgtgaatt accagtcttc tgacttcaac 240  
 acaaatagca aattgcaaag tgttacttgg ggttcttggg atgggttggg aagtcattct 300  
 gacaatctca gaagttctaa agaactagtt ttatcttaac tatcactaat ttgcaaagta 360  
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<210> 63  
 <211> 1328  
 <212> DNA



<213> Homo sapiens

<400> 63

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gtattagggg aacagatttg aattaaccaa gcgtttacta tgaacagctg tgaagaactg 180
cagtactggc aaaactttta aaaaggagga ggtgtggaat tatctttatt tttgcatggt 240
gtcttttgat actcaagaag caatccgaga ttcaccagtt cattgatact tttctcttga 300
tggaattttc aagtttcatt ctaagtgctt actctgcata tcaagcatgt gaatgagtga 360
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tcgttgtcca tgttcttctg ctaaacatta cattagttga tatttaagtg ggatgggtcat 480
tgcagaaagt tgggaagaaa gtctcatcac ctactgtta gattttacat atgtttatgt 540
aattttgtga attaccagtc ttctgacttc aacacaaata gcaaattgca aagtgttact 600
tggtgttctt gggatgggtt ggggaagtcac tctgacaatc tcagaagttc taaagaacta 660
gttttatctt aactatcact aatttgcaaa gtacatgttc ctttttcttc tggtctaat 720
tcctctctaa caaaagtatt tctaaatttg acattaatct ctggtgcttc ttcaatttgt 780
gcatctgcaa actgattttt ttattaaatg agataacatg aaaatatttg caaatataag 840
atgatataat ttctcttttt ttctctgttc gttttacaaa gtgatctgat gtgaaacaaa 900
ggtacagaaa tctagtcttc ctccagacttt cagatttata atcatttttt gttgtttttt 960
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cataatagtc tatcctattc atcaccaatc cagactttta agttactaac agtcaccttt 1080
aggaagaatt tacaccagac ttttcaagca agttatagca aaaaaaaaaa aaaaaaaaaa 1140
atgtggcggg gcgcggggcg gagagttaa acaatctgtt ggggcgggcc gagggatga 1200
gaagggcagg cgccaggacc gggggaaagg tgggtcccc aaaagcgggc gccggtgaac 1260
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<210> 64

<211> 274

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (19)

<223> a, c, g or t

<220>

<221> unsure

<222> (22)

<223> a, c, g or t

<220>

<221> unsure

<222> (45)

<223> a, c, g or t

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 aaacttgat cttcacgtag catatgagca atgggaaaat catttttgga atgaggtggg 180  
 ctataaataa acagtaataa attattataa gccttcaaaa tgttggtgca aatctatgat 240  
 ctttttctcc attggtattt atttacccta gagt 274

<210> 65  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
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 caccagtctt ttctgctccc aaatgcagta atgaaaagcc aatgaaatca aagtatataa 120  
 tatatatgct aaagtacttt gtaattataa agcattaaac agctaaaagg aataataaat 180  
 tctgttcaga gcacagattg gcaagctttt tctgcagaga tctagaaaat aaatacttta 240  
 gggttttcag gccaaagaggc aaaa 264

<210> 66  
 <211> 1031  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
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 aggaagaggt ggattgcttg cctgagctca catcaccagc acctgctgtg gtccctggca 180  
 caccttgccg tacattgaat gaaggcaaag ggagagattt catcttagca aaatgtcatg 240  
 aactgcctgg agaaccatga gttttctgtt ggtggggagt tacgtcttgg agggggcgcc 300  
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 gggcttcttg agctaaaatg ggtgctttgt ccatgctgga taaatatgtg gcgatgttgg 480  
 tgggttgggc aagtcagtta cacgactctg tatgttcttc agatgatttg gggatatcac 540  
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 aattaaagtt ccttcttaat aaaatgttcc agtaaaacac tttcctagtc cccttggtga 660  
 tacgtttgtc tgcagtgact ggattagctg gcgggagaat agaagaaaag tggattttga 720  
 agggagattg tgcttgagtc acgcttccag ctccctagtc ttgtgggacc ccagtggggc 780  
 tccccagagc tttcgggtct tgatcatctg taaaatgagg gtccctgccac cagtcttttc 840  
 tgctcccaaaa tgcagtaatg aaaagccaat gaaatcaaag tatataatat atatgctaaa 900  
 gtactttgta attataaagc attaaacagc taaaaggaat aataaattct gttcagagca 960  
 cagattggca agctttttct gcagagatct agaaaataaa tacttttaggt tttgcaggcc 1020  
 aagaggcaaa a 1031

<210> 67

<211> 537

<212> DNA

<213> Homo sapiens

<400> 67

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gtgtgattcc	aaaacctggg	gtttgccagg	tatcttctaa	gtctataata	cgtattttat	180
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atctagggaa	cattatacat	gcaatagatt	gtagtctctg	gaagtcgaag	ccttgtctat	420
ctttttcacc	actgaccca	tttataatct	agaacagcag	ctttttggga	tttgagtttt	480
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<210> 68

<211> 1645

<212> DNA

<213> Homo sapiens

<400> 68

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<210> 74
<211> 435
<212> DNA
<213> Homo sapiens
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<220>  
<221> unsure  
<222> (324)  
<223> a, c, g or t
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<220>  
<221> unsure  
<222> (355)  
<223> a, c, q or t
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<220>  
<221> unsure  
<222> (370) .. (371)  
<223> a, c, g or t
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<220>  
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<223> a, c, q or t
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<220>  
<221> unsure  
<222> (393)  
<223> a, c, g or t
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<220>  
<221> unsure

<222> (395) . . (396)

<223> a, c, g or t

<220>

<221> unsure

<222> (399)

<223> a, c, g or t

<220>

<221> unsure

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<223> a, c, g or t

<220>

<221> unsure

<222> (424)

<223> a, c, g or t

**<220>**

<221> unsure

<222> (427)

<223> a, c, g or t

<400> 74

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tgttatcatc	atgatgggat	attntctata	attatgtttt	ttacaattac	cttgntgatt	360
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<210> 75

<211> 704

<212> DNA

<213> Homo sapiens

<400> 75

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atagcaactc	ttactcaaat	ttggtaaaac	aaacagataa	tgagtaaatt	gctcttgaag	180
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cctaagtggg	cacaagatgt	ctactagcca	caaatggaat	aagaggttcc	cttgtccatg	360
tgaccaggga	gacagaaacc	tcttcacagc	ctttcaatac	atattgtccc	ttcttttgat	420
ctgaatagtg	gccacttaca	tcatgaaggg	cagtaaccat	actcaatgcc	cgcactgata	480





<212> DNA

<213> Homo sapiens

<400> 78

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agagaggcca aaaaaaagggt gccaggcagc tcacggacag aggtgctcgt gccacacaga 180
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ctgtaccagg ggtgcgcttg ccccaacagt gcctgctggg ccccttaa at ccgccagcct 300
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agtccctca ggggtgtggc tgctgggtct tcgtggcggt aagggacaag tcggagtgc 480
gggggtcaag gacaggaggt ggctggctgt agcaataatc ggaaaaatga cagtggctcg 540
gagcagagtg gtggtggtgg aggagagggg tgggcattgt tatctcgaat gaaaacagtc 600
tgt 603
```

<210> 79

<211> 133

<212> DNA

<213> Homo sapiens

<400> 79

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agtttccttt gttgggttat ttttaatttg acctgggtat catttttcag ccatatttaa 60
ctttgtacat atcagaatgt tctgataaaa cttaactttt attaaagtgt ttgtgatata 120
agcataaaaa aaa 133
```

<210> 80

<211> 349

<212> DNA

<213> Homo sapiens

<400> 80

```
aaatagaaag tgacagcaat tcttttccta tgcaaacc caactggaaa gaaaataact 60
ggcattgcaa aagataatgt gtacccaaac tagcagatta tatcacaac actttaataa 120
aagttaagtt ttatcagaac attctgatat gtacaaagtt aaatatggct gaaaaatgat 180
aaccagggtcc aaattaaaat aaccacaaca aggaaacttt ttttttttta agacacaagg 240
tctcattctg ttgcctaggc tggagtgcag tggcatgact acagctcaact gtgacctcaa 300
actcctgggc tcaaacaatc ctcttgcttc agccccctga gcagcagct 349
```

<210> 81

<211> 959

<212> DNA

<213> Homo sapiens

<220>

```
<221> unsure
<222> (496)
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (498) .. (551)  
<223> a, c, g or t
```

<400> 81						
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cttgattgcc	aaaagttcct	tccagtctaa	tactctggga	ttctggggcca	gtttctggtc	180
tgtcacagct	gaataagagt	gcaagggcag	gagtggaatg	ttcagactgc	tccaagagga	240
ccttgggcca	ggtgaggcag	caggccggca	ccctgcccac	aaccacatag	cggggccagg	300
cttgctgac	gcctcaggct	gtgctctctc	cagctcactg	cggtgcctct	cccagattcg	360
ggcacactct	ggtgtaacct	gcttcgctcg	ttcgcgggat	gggtggtgag	catggagccc	420
attttcccat	gtggcatttc	agcaacagga	cttggtctatt	tgaaactccc	cagacatagc	480
aggatttaaa	aaacgnannn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nctgcagtta	ctgcctcagg	acgcctttct	ggaagggtgag	tttcttggcc	600
aggggatatc	gcacatgcac	tttgaggcct	ctgagccttt	gcacaggctg	gtccctttgc	660
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gaagtgtcct	ggctgcatgt	gctgctctcc	ttgccctggg	ctgccctctt	ctccctggtg	780
tcatgagtat	ctgctgacct	tctgcttctc	ccatgacaga	gtgccttctt	tctcttctt	840
ctctgccttg	gcctccagca	cgtagtaggc	gcctaggaaa	tgttttccag	cagaacgagc	900
catctcctgg	ctgggtttagc	agtgtgggat	tgtgtgggtg	ttctattagt	ctccatgaa	959

```
<210> 82
<211> 457
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> unsure
<222> (4)
<223> a, c, g or t
```

<400> 82						
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taatctacac	gtgataggca	acactcatac	tatgtgctct	gatggctgct	atgctgacct	240
ctttcaccaa	tggctgccac	ttgtcacact	gtgtctcctc	atgagggagg	aggtgtccta	300
tctgcagtca	ttatttatac	atggcttgaa	gatttgcaag	atcgtaattt	tttaaaaaata	360
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gtgtacaaaa	aggatattaa	aaactacctg	tggattt			457

<210> 83  
 <211> 844  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
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 tctgatgggg gctcagagcc ctggcctccc ctgggaggac acgctgtgca gccaggacag 180  
 ctgccgggag tgtgcccagg tcaactgctat ggccttcgca gggtgactgg caggatatcaa 240  
 atcagcccat gaaggaagat ggtgattttc cttttttgta gctaaattgg gcaggctctt 300  
 gggaagtaga aagttctggt gtttttgctg gtgaaggttt tgactgtgga gctcttctaa 360  
 caccatatac agtgtctggt tctctgcatg tggctgctgc cctgttggtg gagctctggg 420  
 ggcagagacc aggccgccgt ccagtggcgc cccgtgcgca ccagctgcct gctgtttaca 480  
 cccagggtgcg ccgagtctct ttcatacagc acagcaaatag ataatagcta gtgacaatgt 540  
 gtttcctgtg cactcgtgaa aatgcaggga ggacaactgc atgcttagat ctgtttcttt 600  
 tttcagacat tcaaattgttc taatatctga agctaacatt ttgtaggata taggatgctg 660  
 attatgtgaa caattagtca ttgggttttct gtactgctat gaatatgtct gattttcaagt 720  
 tttggtcaaa tatctaaaat gcaaggtgaa agtgcctttg tctctatgct tctaaaatcg 780  
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 tttc 844

<210> 84  
 <211> 3180  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
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 gaggagtcgg cgtcccttac ccagttaata agatcaatga atgcgcaggc ctttcttctt 420  
 ctagcttcca cccacaaata aaatgggttc aaaaagaaga tgtcgtcatc ttaaagataa 480  
 gaataaggaa tgtaaaggac tacaagtgtc agtatttaag ggatagagtc gttttcagt 540  
 cttgggtggg agacaaattt tacctggctg atctggagct gcggggcaac ataaggaaa 600  
 atgactgcca atgtgtgatt agaaacgatg aacctgtaat cactctggcc aaagagagaa 660  
 gggaggcatg gtgtcaccta ctacagacaga ggaaccccaa cgtggctttt gatattgatc 720  
 actgggaaga ctgtgaagag gacagccact tccccagggt agtgaattct aaaaacctgc 780  
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```
<210> 85
<211> 996
<212> DNA
<213> Homo sapiens
```

44

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ttgattgttt ttgctggcag atgtgagaga gcatcattgc tcattatatg gttggcttaa 480
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tgagagttca ctgattttta aaaccaaata ctgtaatagg acacagaatt taataagaat 780
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tggatgtgac tattacaaat agcagtgatt tatgatgggg tatctgcaa ataggctttg 900
ctttgagaaa aaaaaatcaa aatctgtgtt ttaaagtagc attaataatt ttgttctgta 960
actagaaaat gaataaacia tgtttgtttg cgaagg 996
```

<210> 86  
<211> 523  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (257)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (270)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (272)  
<223> a, c, g or t

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<400> 86
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gaaagagggg agcctgggga ggctgggtta caaacttcaa aaactccacc aaccacaccc 180
aagctctagt ccctgtagta gtaacaatat tactggcttt ctgtgcgtca agacattttt 240
ctaagcactt tacatgnaat gcctcattcn tncttcacaa ccaccctgtg tattttttatt 300
cctccatttt acaaaaaagg aagctgcagt ttcgagtggg tgatactttg cccaaagtca 360
tatagctaata aaggatagat cttatactta aaccaggga gataacaaag cctatacact 420
taacctctta agaatacataa ttccaaattg tattttcttta gtcagttttac agtagaagaa 480
atcattccag ggactgtgct attggtaggt gatttttttt tgt 523
```

<210> 87  
<211> 390

```
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (122)..(251)  
<223> a, c, g or t
```

```
<220>      .
<221> unsure
<222> (333) .. (334)
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (338)  
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (343)  
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (348)  
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (365)  
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (381)  
<223> a, c, g or t
```

<400> 87						
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	ntcacttctt	tacctcagtt	ttctcctctt	caaaatggag	ataatgccta	300
ccttacaaat	tgatgggtgag	aattaaatga	ggnnatgngt	gcnaaaangt	gtgtgtatgc	360
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```
<210> 88
<211> 900
<212> DNA
<213> Homo sapiens
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<400> 88						
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ttaaaaaata	cttctagaga	gattctgaaa	tcttaatttg	gttgcacttt	ctggtaatat	180
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cattttgaaa	ctgaggccta	aaatactgaa	atgcttatgt	cgttgtactt	actcctttct	360
gaaatgatca	gattttttaa	aaatggattt	ctcatataaa	taatattatc	aaaaaaggat	420
ttctcatata	aataatatta	tcaaaaaagc	tgatttttaa	agtttctccc	aaagtcttat	480
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tattttggag	tagttctcat	aattcattgg	tagggaacta	tccagtattt	atattcctat	660
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tctttaactt	gacgtaaaca	tgtatcacia	acatatcttt	taattccaat	taaaggggtg	780
ctttggcaca	tgctgaaatc	tgggattttt	ttttttgact	ttgataaatt	tatcaaaaag	840
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```
<210> 89
<211> 1173
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (1030)..(1053)  
<223> a, c, g or t
```

<400> 89							
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cacttaagta	ctctaaacca	ctatttaaaa	aatacttcta	gagagattct	gaaatcttaa	180	
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<210> 90  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 90  
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tttgagattc atccatattt ctcagtatat taatagttct tatttctgag tcaactccatt 180  
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<210> 91  
<211> 2518  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (2502)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (2508)  
<223> a, c, g or t

<400> 91  
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```

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```

<210> 92

<211> 611

<212> DNA

<213> Homo sapiens

<400> 92

```

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aattacccat g

611

<210> 93  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> a, c, g or t

<220>  
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 <222> (442)..(509)  
 <223> a, c, g or t

<220>  
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 <223> a, c, g or t

<220>  
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 <222> (561)  
 <223> a, c, g or t

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 aaagtgagag aactgggat ggaggctgag aagggtcctt tttatacacc tgttctgtaa 240  
 atttaattgat tattacagtg gtgatgatga tgcaggatgc ctatcatatt ttaattatta 300  
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 tatgtattat acattagaca ttgagctgga tgtttttcct atatcagaac atttaacata 420  
 cacaaaaatc cttgngcatg gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
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 atccaaagcc tatattattc naaaaaga 568

<210> 94  
 <211> 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 94

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ccgagcctgc caagggttgca cattgtgttt ttatttgagg gcgagtttg acggcaagac 180
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tcacagccat aacttacaat tattgcatac ttacgacgag tcccgcactg ggctaagtgt 600
tttttaacta tgtgaaatgt ttctttcctt g                                     631

```

&lt;210&gt; 95

&lt;211&gt; 1123

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

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&lt;210&gt; 96

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

```

actgtgcccc gccagtatat actagaatct taaaaaatct tgtgtgtttc ttatgattag 60
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gcttcccacc ttttgtgtaa cttctagtag tgaatt 516

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&lt;210&gt; 97

&lt;211&gt; 1373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

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cgcagctgtg tagaacactt accatgcatg gagtttgcag gattggaagt tgctctgggt 420
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&lt;210&gt; 98

&lt;211&gt; 632

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<222> (496)
<223> a, c, q or t
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<221> unsure  
<222> (595)  
<223> a, c, q or t
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<221> unsure  
<222> (601)  
<223> a, c, q or t
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<220>  
<221> unsure  
<222> (623)  
<223> a, c, q or t
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<400> 98						
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tttttagata	gctttttatg	tggcttggaa	gtataaagat	gtgaaaaaat	agttgaaggt	180
taattttttc	tttaaggtga	ctaatttaac	ttgggaatga	taaatctcaa	gggcaatgaa	240
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tataaaaagc	aagggtttta	ttcttatttt	aagaagtgtg	aaatacactc	ctactctaag	360
gtaatgtcaa	attagctata	actattaaat	gcaggtttgt	ttcattatta	tgttatattt	420
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<210> 99
<211> 1142
<212> DNA
<213> Homo sapiens
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<220>
<221> unsure
<222> (929)
<223> a, c, g or t
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<221> unsure
<222> (934)
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<223> a, c, g or t

<220>

<221> unsure

<222> (968)

<223> a, c, g or t

<400> 99

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atgtacctaa	tagttttttt	agcatgtaca	atctgccaac	ttccttacaa	cattgataaa	360
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ttattttctt	ttttttttcc	agaacatttc	aaaaacttcc	catactgttt	ttctgttagc	480
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aactctttac	tatccagtac	ataagactct	agaacattaa	aattctttat	atagtgccat	660
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taatgatgga	gcacctgtat	ttgactagat	gttatataca	tgccattgaa	agacatagta	1080
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aa						1142

<210> 100

<211> 229

<212> DNA

<213> Homo sapiens

<400> 100

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aaattttttac	tttccatctt	aatgtaacct	tatgctattc	tgtattttta	ctgtatattg	180
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<210> 101

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 101

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taaccagagt  cctaagatgt  gcaaggtcag  tgtgtgaact  atgctggagt  gtgatgtgaa  180
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cctatccagc  actacagtgc  tagtaattga  gttaagccag  tgacttgacg  agctaggatt  420
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gaactggggg  agggacccac  ttggcgggcc  acccgggcac  acccccaaaa  gatagagccg  1320
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ca

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<210> 102

<211> 816

<212> DNA

<213> Homo sapiens

<400> 102

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tgcattctta  acaatataac  aataacatag  ctttaagcact  tatcaagtta  tatggtagat  180
taccattagt  aatacattga  aatatattaa  atttagtttt  tggcaggctg  gataaacacc  240
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gcatcattta  ataatttaca  aagaaagttg  tattacattg  ttttagatttt  gtacatacag  780
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816





<212> DNA

<213> Homo sapiens

<400> 105

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tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180
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caaaggacac tgataagaaa gaggaagtca tagatggagg aaacagggaa cctactatgg 720
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<210> 106

<211> 884

<212> DNA

<213> Homo sapiens

<400> 106

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tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180
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gtattacagc agaaggatgc agtgtctctg atggaaagtt ttccaggaag aaataaaaaat 840
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<210> 107

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 107

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agccctctga	ctgacactgg	cattggctgt	gggggtgaaa	gcacaccagg	agccatgtgc	180
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cagtgccacg	tagagcagta	tctgactcat	cctactgttg	ccattataca	ccataaatac	420
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gcaaagaatt	tcataagtgg	gaaccattcc	tgctagacta	gacttactga	tttttgtttc	540
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cctggcacca	agtgtattcc	tccaatgtta	aggctgtata	tacagggaga	atagcagaga	1080
ggccattgtc	tctctaacta	gaagcaaatc	cccatagtat	tggttcttgt	aggaggagaa	1140
tgagataccc	atatcttttg	ttctctcact	aaccgtagga	ttttactcct	aacgttttct	1200
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<210> 108

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

$\langle 222 \rangle$  (443)

<223> a, c, g or t

<220>

<221> unsure

<222> (532)

<223> a, c, g or t

**<220>**

<221> unsure

<222> (534)

<223> a, c, g or t

<220>

<221> unsure

<222> (544)

<223> a, c, g or t

<400> 108

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tcactttttc	tttataatat	ttttctaact	ctgtctttta	agttcctatt	accttttagga	120
gtcctccagc	aaaaaaatat	gaaaccttat	tttcatgaaa	gccttttttg	tttcacaatt	180
tgccatttgt	tattaaagcc	cctctactga	agagctacaa	acctatttcc	tcctactatt	240
tcatectttc	tattctgttt	cttaaagtgc	ttctgtgcct	taaatgtctt	ctgtgcatcc	300
tatggaagaa	gaacctctct	aattcagaat	tcacagcatg	gagagagaag	ttatttgctt	360
atttcattca	ttaataacta	gagccaccaa	cataccacat	cctattttaat	gttgtcatta	420
tttacaaaat	gcaagggaaa	atngattata	gtgaagtgga	ctcattcata	gcaacactat	480
atatgccaaa	atttcagtga	cttgaatggg	tacacaaaaca	gtttgggttg	tntncaatgt	540
taangtcatg	ttttgttgaa	atgttgattt	ttaaaaaggc	ttttgaagta	aactgaagaa	600
ttcactttat	gagaaaaaca	ttagaaactt	gtttcctacc	tacaaatatc	aaaattatta	660
aagaggcatg	tgaataatta	taattgaaag	agtatttaca	tttattcatg	ttttataatt	720
ctgtgcaaaa	aattactaag	aattgggttca	ggttgccatt	aatatgaagt	gcttagaatc	780
ctgtatatgc	caaagaaact	gcattctgtga	catgtaatat	ttttctgttc	tattgttaact	840
tgagaatttt	actatgatat	tttagtttct				870

<210> 109

$\langle 211 \rangle$  210

<212> DNA

<213> Homo sapiens

&lt;400&gt; 109

agaagtggca	ttcttaaatt	caagaaattg	ggatggggag	tattcacaca	ttttataacc	60
cagaaaattca	agcaattctg	gtgactacaa	atgcattgtt	ttggagaata	gttgtaaggt	120
ggaaaaagaa	ttaggaactc	gacagatagt	gagttttaac	tttaaataac	aattcttctt	180
ttgttttggt	ttgtttgaga	cggggtctcg				210

<210> 110

<211> 861

<212> DNA

<213> Homo sapiens

<400> 110

atcacaggca	tgagccaccg	cgcttggcca	gaagtggcat	tcttaaattc	aagaaatggg	60
atggggagta	ttcacacatt	ttataaccca	gaaattcaag	caattctggt	gactacaaat	120
gcatgttttg	gagaatagtt	gtaagggtga	aaaagaatta	ggaactcgac	agatagttag	180
ttttaacgtt	taattaacaa	ttcttctttt	gttatgttgt	gtttgagacg	gggtctcgct	240
ctgctgcccc	ggctggagtg	cagtggcagg	atcacggttt	attgcagcct	taacctcctg	300
ggctcaagca	gttctccctc	ctcagcctcc	agagtagctg	ggactatagg	caagtgccac	360
cacgcctgac	taatttttta	attttttgta	gagatggggg	ctcccatctt	gccaggctg	420
gccttgaact	cttgggctca	agcaagcctc	ccacctctgc	ctcccaaagt	ccaaggatta	480
caggtgtgag	ccattgcccc	cagccagtat	aacagttagt	gtgtgtgtgt	gtgtgtgtgt	540
gtgtgtgtgt	gtgtgagaca	gaggggtctc	attctgttgc	acaggaagta	gtgtagtggg	600
gcgaccatgg	ctacagagaa	gatactagaa	ttctcaggct	caagtgatcc	tctcacctag	660

```

aactagttag tagcagagga tacaggcata gaataacaga catggaatta attaaaaaaa 720
atgttttagcg tggaagacag ggctctaaac atatgtgacc atggactggc ctagaacatt 780
gtgaacgacg aagataatcc tcgtggactt gggacctcat caaaatgggt ggacatacag 840
gtgtgagcac ggggtgcaata a                                     861

```

```

<210> 111
<211> 777
<212> DNA
<213> Homo sapiens

```

```

<400> 111
tatacttcca cctatctatt aaaacttatg ccctcaattt ataaatgata gtaaggcctt 60
ctctgaattc attcatttat ttttcatcaa caaatgttta ttgagcttct acaaggcact 120
tggttactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180
agcaaagaat ttgttgttca actgtagca attttctatt gttaatatgc tagaatgtca 240
gctccacgga tggtggagat tgaccatac gtagaattcc aaatggatat ataggaaagc 300
catttaaaat gtcttaatat cttcagaaaag gaatttcaca cttctcttta aaattttgat 360
tttgtcattc tcgttacctg cttatagagg ctttttcatt tgtacattta actccataat 420
ccaagaaaaa gcagtttggc aagggggcctt tgtttggttt gaaatgttct ctttttttag 480
ctttgtaggc cacagaagac tgtgggtatt caaaagtaaa gtaatttaag aaatatgttt 540
gtttaattta taaggtagaa aattagagat agctctaaga attgcagtaa gccacagaaa 600
tcaaactgca agacttgaat actacctgta ataacttaat ccccaaataa aacgaatgag 660
atgttgaatg tgaacatgct ttgtaaactt gaagggtgtc tgtgaatgct gtacagcata 720
ctagaaggta tgactgtgct agagagaatg gagaattcag ctgccacaaa aatctgg 777

```

```

<210> 112
<211> 1076
<212> DNA
<213> Homo sapiens

```

```

<400> 112
tatacttcca cctatctatt aaaacttatg ccctcaattt ataaatgata gtaaggcctt 60
ctctgaattc attcatttat ttttcatcaa caaatgttta ttgagcttct acaaggcact 120
tggttactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180
agcaaagaat ttgttgttca actgtagca attttctatt gttaatatgc tagaatgtca 240
gctccacgga tggtggagat tgaccatac gtagaattcc aaatggatat ataggaaagc 300
catttaaaat gtcttaatat cttcagaaaag gaatttcaca cttctcttta aaattttgat 360
tttgtcattc tcgttacctg cttatagagg ctttttcatt tgtacattta actcataatc 420
caagaaaaag cagtttggca agggggcctt gtttggtttg aaatgttctc ttttttttagc 480
tttgtaggcc acagaagact gtgggtattc aaaagtaaa taatttaaga aatatgtttg 540
tttaatttat aaggtagaaa attagagata gctctaagaa ttgcagtaag ccacagaaat 600
caaactgcaa gacttgaata ctacctgtaa taacttaatc cccaaataaa acgaatgaga 660
tgttgaatgt gaacatgctt tgtaaaactg aagggtgttct gtgaatgctg tacagcatac 720
tagaaggtag gactgtgcta gagagaatgg agaattcagc tgccacaaaa atctggtctc 780
ttccgctctc agactctgtt gaggaagaa gatatgcaga aataaccacg tgataaatgc 840
aaaaaagaag atattttttgg gtaatttgag gaaggaaggg gtccccttta tcctggcag 900

```

```
tccagagact cttgagaaaa agcatctaag caagtccttg aatgatgtgg catttcaata 960
aaagagatgg agaggaggca tttgagatag gaggactagt aggagatgga gaaacttgga 1020
gacatattca gggaaaagca tcaagtccaa ctgagttaga actggagcag agtcgg 1076
```

```
<210> 113
<211> 190
<212> DNA
<213> Homo sapiens
```

```
<400> 113
cgtacgtaag ctcggaattc ggctcgagaa tattttcaag tcatattata atgatggggt 60
ttcccccagt actttggatt gaaataaacg ggttagaatg gagaacagat gacaggagtc 120
ttctctgaaa tttctgagag gccacacaat cttagggttg ataaagaagg aataagaata 180
ggaaatacgg                                     190
```

```
<210> 114
<211> 622
<212> DNA
<213> Homo sapiens
```

<400> 114						
tggggttgat	tgagaaagtg	ggcccaagat	aaggaagtcc	tgtggggcct	cgcagcccac	60
ccgccactat	cagcgcagcat	gtgaggatat	tggaccttca	cccaagattt	catttagggg	120
tatactaggg	tttttagtgc	taacactatt	tgagagaaca	ctgccccaac	agatctgcat	180
ttacctatta	ggcataaaca	cttgggaatac	caaatgtacc	agatccgctc	atagtagtaa	240
gtcagaagtc	agcttccttc	ccctgtttgtg	ttaggatacc	accatgcgta	atcatcctga	300
aacaaaggtg	cggggggagga	tttggaaaac	ttgttcctaa	ataagctgtt	ttctaagttg	360
agctcccctt	ctctagaaaag	tttccttagg	aacattatgc	atattggaga	caaagataaa	420
acccttttta	ttaaagtaaa	aaaaaatggt	gatagttggt	ggtgatgtcc	aaataatatt	480
ttcaagtcac	attataatga	tggggtttcc	cccagtactt	tggattgaaa	taaacggggt	540
agaatggaga	acagatgaca	ggagtcttct	ctgaaatttc	tgagaggcca	cacaatctta	600
qgttgaataa	agaaggaata	ag				622

```
<210> 115
<211> 801
<212> DNA
<213> Homo sapiens
```

<400> 115						
cggtaacagg	aaggacttac	cccaccattc	ttgggatctg	tgtgagctgt	ggaaaggcct	60
cttgggagat	tataggtaca	gaataccggt	ggcttttcgcg	ggactttgaa	aactaatgta	120
tgagcatttc	tgctgccaga	ggatagtgtg	gttcgtgact	cagtggctgg	tcacacagag	180
aaggttgaca	cacagtgggt	gaaaggttgg	aggtgcgcgt	gatggggtgg	ctgtgtgcaa	240
aaggctgcca	ctcagctggt	cagggactcg	tttgaatgat	gagtgatggg	tgagaatatg	300
tgtcctctgg	atggagttgg	ggatgaacag	ggaaagttgt	gtgagacttt	atagaagggtg	360

cagtggctag	agcaggcata	ttcatgttgc	tgtcagtaac	agaaccgaag	gcaaggtctg	420
agctggagca	cgggtggggac	ccaaagtggg	agagactgtg	tctgccaca	gggagtttat	480
ggtcaggagg	gatgggcaag	tacagggata	agtaacacaa	gacagactgt	gtttaaacca	540
cccagtgaag	ttacaaccag	aggtggtggg	aatgcagagg	aagagggggag	cagagagcac	600
ctgagatggg	cttgagttca	gaaggggaaa	aatgaagggc	cctccaggtt	gaacagcatg	660
agtgttcaga	gacagcatgt	atatggttta	tggagaacgg	tttgcctggt	gagtaggtag	720
ctctgggaaa	caacacttgg	aaaaattgga	ttgagttagc	atatgtaagg	cttaatgcc	780
tgctaagaaa	actatactta	g				801

```
<210> 116
<211> 1657
<212> DNA
<213> Homo sapiens
```

<400> 116						
caggtattac	tcgactacta	ccatgaacga	tacagtaact	tagccaggcc	tgggtggtgta	60
aacctgtagt	tccagctatt	taggaggctg	agggtgggaga	atctcctgag	cccaagaggt	120
caaggtggca	gtggctgtaa	ttgtgccact	gcactcctgc	ctgggtgaca	gagtgagacc	180
ttgtctcaaa	aaaagaaaga	aaatttttaa	atttcttgaa	acaaatgaaa	atggaaacac	240
aacatactaa	aacctacagg	atacagcaaa	aacagtacta	tgaagaaagt	ttatagcaaa	300
agtgcctaca	tcaaaaaagt	agaaaaaactt	caaataaaca	acctaaaaat	gaatcttaaa	360
gaattagaaa	agcaaaagca	aaccaaacc	aaaattagta	gaagaaaaag	atcacagcag	420
aaataaatca	aattgaaaca	gaaaaaacac	aaaagatgaa	aggaaaaaaa	aactgggtgt	480
ttggaaaaga	taaacaaaat	ggacaaacct	ttagccagac	taagaaaaaa	agagagaagg	540
ctcaaataaa	taagatcaga	gatgagacat	tacaagcaat	accacagaaa	ttcaaaagat	600
cattagaaac	tactggccag	gcattggtggc	taacacctgt	aatcccagcc	ctaagtatag	660
ttttcttagc	agggcattaa	gccttacata	tgctaactca	atccaatttt	tccaagtgtt	720
gtttcccaga	gctacctact	caccaggcaa	accgttctcc	ataaaccata	tacatgctgt	780
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gcccattctca	ggtgctctct	gtccccctct	tcctctgcat	tcccaccacc	tctggttgta	900
acttcactgg	gtgggtttaa	cacagtctgt	cttggtgttac	ttatccctgt	acttgcccat	960
ccctcctgac	cataaactcc	ctgtggggcag	acacagtctc	tcccactttg	ggtccccacc	1020
gtgctccagc	tcagaccttg	ccttcgggttc	tgttactgac	agcaacatga	atatgcctgc	1080
tctagccact	gcaccttcta	taaagtctca	cacaactttc	cctgttcatc	cccaactcca	1140
tccagaggac	acatattctc	acccatcact	catcattcaa	acgagtcctt	gaccagctga	1200
gtggcagcct	tttgacacac	gccaccccat	cacgcgcacc	tccaaccttt	caccactgt	1260
gtgtcaacct	tctctgtgtg	accagccact	gagtcacgaa	ccacactatc	ctctggcagc	1320
agaaatgctc	atacattagt	tttcaaagtc	ccgcgaaagc	caccggtatt	ctgtacctat	1380
aatctcccaa	gaggcctttc	cacagctcac	acagatccca	agaatggtgg	ggtaagtcct	1440
tcctgttacc	gatgatggct	ctgaatttcc	aacacgccat	aggctctccat	gcccttttat	1500
gcttcctggg	tctcaaccac	ttcaaaaccc	ctcaaacagt	acctatccaa	agcaaatcgc	1560
tgggcaggcc	cccaaacaga	acctgtgaga	cacagttaag	gataggaaaa	tgcaggcggtg	1620
aaqccatqac	tqctqaccct	tatagaagat	gtgcctt			1657

```
<210> 117
<211> 1041
```

<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (759)  
<223> a, c, g or t

<400> 117  
aattgctaag aaagcatttt gactggaggc aaagaaccaa aagctattca attaatctta 60  
ccagttctgt cttaagggtca cagaaagatc atgatttggt atatatccat atatttttaa 120  
ttaaagagga gggttattac tcaagaaatt tgtacaaaat ataaatatac tttttaagta 180  
ttaagaaaat atctatactc tacaataat gttaccatgt agcatatgaa gggtatggta 240  
ttctaactaa agaagcttaa gattttttca tgggatattg ttctgccaga aaatatctat 300  
gtgcagtgtg gatatatgat gtagaacaaa aaaattgtat atactccaaa gtattattta 360  
atgcagaaaa ctgaaaatct tcaaaagtta caaaaaaact tcaccatgtc caatgcagct 420  
ggtaggaaaa atattttctgc aagaccagaa ataaactaga agaaggattt acaggagtaa 480  
taaaactgag aaaccgctac tcccttcggg tcttgattga ttgcaaggac ctcaaacttg 540  
tgtagattgc ccaattttacc ctcttgaaat aaacaaagaa aaagtactga ctgaagcaga 600  
tcataaaata taaaacacag aagaaaataa gctaccactc taaagaatga gaaaaaaatt 660  
aattgtatac attttagtta ttttaaata acttaaaata ttttaagtaa cgcaatgggt 720  
aaaatagaaa attttaaaaa atgatttgaa aagaccaana aattgtaaac taaacaagca 780  
tatttgaggaa aggagccaaa gagaaattga aaaaaaaat aagtttaata cacaatattt 840  
gggttaaata ttaagttaga ctacatgat aaaaagatta gttaaactgca atattgagca 900  
gaatgaatat caccaaataa agacaaaata taaaatata aatataatta taggaagaat 960  
atgagaagga aaatacattt aaattatcca atagaatata taaaactata gaatatgtaa 1020  
atagaatgta taaacatttc c 1041

<210> 118  
<211> 688  
<212> DNA  
<213> Homo sapiens

<400> 118  
ttatttccta agtactcatt ttaaaccctc ctctgtttta atggaagggt ctgccccttt 60  
aacatatgtc ctttaaagta agagtacctc cttcccagat acgtgcagag cccagcccta 120  
cccagttctg aagccactct gacacagacc aatgtttttt cagggttctc aggcctttat 180  
ctcacagggtc tgcaacctgt tctgttgcta caggcaccat atctagtgtc gtagtagaca 240  
ctaggagaca aaggcgaaaa ggctttcatt cctgacacag cctgcatatt tgctctaatt 300  
tgaagtgggtg tgaacacact gccaaaggaag cccagaggag ggaaggaata aagctgcctt 360  
gaaggacaaa gaggaagtgt ttccagagga ggcaacgatt gaatgggacg aaagcttcac 420  
aggacttcac tgaaccagag gatggagaag gacactctta ggataggaaa agttgaaaaa 480  
tcccaaagag gcatgttaca ctatgaagcg tttggacaat gggctacaca aggttgaaat 540  
gggaggttgg aataaactgt tgaagagctt ttagcagcca tggtaaagtg tctggatttt 600  
atctcaatgc agcaagggca gggggtgaag aatcacataa taaaataggc atctgctcct 660  
gaaataacca tacagaattt aattattt 688

<210> 119  
 <211> 762  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
 cagaagccca gttatacaaa ttaggctgtc tgatggagac agggatagct ctggctatatt 60  
 atttaaaaaa aaaattatatt cctaagtact catttttaaac cctcctctgt tttaatggaa 120  
 ggtgctgccc ctttaacata tgccttttaa agtaagagta cctccttccc agatacgtgc 180  
 agagcccagc cctacccagt tctgaagcca ctctgacaca gaccaatgtt ttttcagggt 240  
 tctcaggcct ttatctcaca ggtctgcaac ctgttctgtt gctacaggca ccatatctag 300  
 tgctgtagta gacactagga gacaaaggcg aaaaggcttt cattcctgac acagcctgca 360  
 tattttgctct aatttgaagt ggtgtgaaca cactgccaaag gaagcccaga ggagggaagg 420  
 aataaagctg ccttgaagga caaagaggaa gtgtttccag aggaggcaac gattgaatgg 480  
 gacgaaagct tcacaggact tcactgaacc agaggatgga gaaggacact cttaggatag 540  
 gaaaagttag aaaatcccaa agaggcatgt tacactatga agcgtttgga caatgggcta 600  
 cacaaggttg aaatgggagg ttggaataaa ctgttgaaga gcttttagca gccatggtaa 660  
 agtgtctgga ttttatctca atgcagcaag ggcagggggg gaagaatcac ataataaaat 720  
 aggcatctgc tcctgaaata accatacaga atttaattat tt 762

<210> 120  
 <211> 576  
 <212> DNA  
 <213> Homo sapiens

<400> 120  
 ggtgtaagcc accgcacccc gccagcctg gcagatttta tttaatcatt ttagcttca 60  
 ttttcctcgt ctgtcaaaca gggatactgt aatacaacct cagtgtgtca ttgggcagtt 120  
 taaatgaatg tacattcctg aggcacaga actttgttca ctgttatata ccaatgcct 180  
 agaagaggac ctgcacatag cagggtgctc gtaaatgttt gttgaatgaa tgattaagt 240  
 catgtaaagc attaaagcata gcgcctggca gtaagtgtc aatattatga cttcttatat 300  
 taacacgttt tacatataaa gaaatggagg caagaaagca tttcctttgg ggttttagagc 360  
 gcttaagtgg ttctctgtgt atcatgcctg aattcccccg cccctcagtt acctggggaa 420  
 gagtaaaggc aagaattctt accagcatta gtcatacatc ctctgatag gaatctgcga 480  
 aaacacacac ttctgctttt agttctattc ttagaattct ctctgggct gttgctcctt 540  
 tgttccttca ttgtaataaa aatggattct gaaagc 576

<210> 121  
 <211> 1055  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
 ctacgcctcc agagtagctg ggactacggg cgccccacca ccacgcccg ctaatttttg 60  
 tatttttagt acagacgggg tttcattgtg ttagccggga tggcttgat ctctgactt 120



```
<210> 122
<211> 556
<212> DNA
<213> Homo sapiens
```

<400>	122					
accgatttttc	ctacatatat	gccaaactttc	atgggctcttt	ccttaccaca	tggaaaactt	60
ttgaagtagt	gtgatgttga	agaagaattt	gtgatatgtt	caccacatat	gcttttagaga	120
tattctacat	ctaaatatcg	ctggggagtta	gagttggggag	agatttgctc	tagaagcaac	180
atcattggtg	gtgacacctt	gtataatgaa	ttagaaaagga	ctatagaaaa	gtagagtcac	240
ctagaaaatgg	ttttaactgg	gttttaccag	ttagaactct	gtgatttgga	atatgtttatt	300
taacttctct	gggcctccgt	gttctcaaat	ataaaattgc	tgtgatgatc	cctacgttat	360
aggattgttg	tgaggctttg	tgaaggaggg	aacacatgta	aagagtttag	cacaaggctg	420
gacacatagt	caggctcaac	aaatggcgat	ggtagttgtt	tcctaagcaa	ttctatacta	480
cagagaacat	tctcataaaa	ggctgttcac	aggcgagctt	aggccttcag	tccttcaa	540
agacactaac	acgagc					556

```
<210> 123
<211> 749
<212> DNA
<213> Homo sapiens
```

65

```

agttagaact ctgtgatttg gaatatgtta tttaacttct ctgggcctcc gtgttctcaa 420
atataaaatt gctgtgatga tccctacgtt ataggattgt tgtgaggctt tgtgaaggag 480
ggaacacatg taaagagttt agcacaaggc tggacacata gtcaggctca acaaatggcg 540
atggtagttg tttcctaagc aattctatac tacagagaac attctcataa aaggctgttc 600
acaggcgagc ttaggccttc agtccttcaa atagacacta acacgagcac ctgctttgca 660
tgtagcattg tgctagggtgc aagagaatca gacatgtaaa acaaaatccc tgctctaata 720
ttcatagtga gtagaaaata aaaacaagt 749

```

```

<210> 124
<211> 122
<212> DNA
<213> Homo sapiens

```

```

<400> 124
gtgaaaacct ttctttcctt ctctgcttgt gatagagagt gaatgaaggc agtcggggcc 60
gggtgggtcg ggggatatcc atgtcccagt gttagtgttg ttctgacaaa actcatgctt 120
tc 122

```

```

<210> 125
<211> 583
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (488)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (528)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (553)
<223> a, c, g or t

```

```

<400> 125
agaaatttag aatttaaagt ttgttttagt catcttttgg tagatccaat caagttaa 60
attctaccat gtcttggata tgagcatatg actcattgat ggcgttcagt aaaatctttc 120
tgtgtagttg gtttaaaatt tgacttaaaa cagggatata atatttacct tccctagagt 180
aacagattta tgttatgtaa taaccttgac atgtttacaa aatcatgttt aatgggctct 240
ccagagctcc agtgaatacc acaatttggt ctgttttcaa catttttaag gaatctggga 300
aagctgtagg aaatgaaata tgtgtcctaa actttttgta tcaggcttaa ctactgcttt 360
cttgaagttt agcaaaagga taaaggactg tatgttcttc cattaactgt agtcaaaact 420

```

gaattttaagg atttttgata gctggttaga attactgttt gaatctctac tacaaagaat 480  
 attaaganntt ttagcattga gagtcctaata ataccactt aacaatcntt agacttactt 540  
 tgggaggggcc aangcctaag ggtcacatgg tcaggagtcc taa 583

<210> 126  
 <211> 91  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 accgcgcccc gttgtgcatt tctggtttct aagaatcaaa ccacttggct gtttttagga 60  
 gttacttccc atgttataaa gctgaggaag c 91

<210> 127  
 <211> 869  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (400)..(634)  
 <223> a, c, g or t

<400> 127  
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 cattgttagc tagttagata ggtatattgt aggggtattct ctttaacata aaaatggatg 120  
 agtgtttaat aatttaaaaa taatagaagt tgaccagtta gttgtatctt ctgtggattt 180  
 gagaatcatc aggacataaa ttataattga aagcacggga atggaggatg acctaggaaa 240  
 tgtaaagaat gagaaggaaa gattgttgaa gatggaaccc tggggaatgc tggctttaag 300  
 aagggggccac cgcgccagc tgtgcatttc tggtttctaa gaatcaaacc acttggctgt 360  
 ttttaggagt tacttcccat gttataaagc tgaggaagcn nnnnnnnnnn nnnnnnnnnn 420  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaagtg ctggattgca ggcattgagc 660  
 cctagccagg aagctatctt ttcttgagtt atgaaacttt gcaacagttg ttcaaattgg 720  
 tgtttgcctt tcctatagct ttcataattt caaattaatt ctgtatggct atataattta 780  
 tgtttttaaaa ggcattctct tgactttgga aatatggaag tctctccttt aacctattct 840  
 tgttcccatt ccagctctca tttgaaatc 869

<210> 128  
 <211> 585  
 <212> DNA  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (40)

&lt;223&gt; a, c, g or t

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (79)..(131)

&lt;223&gt; a, c, g or t

&lt;400&gt; 128

```

actgaaacag gactagtgtg gtctgggtgt actgcatgan gagaggggca ggtagtgtga 60
gataagatca ggttgaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn naatttctta gagactaaca tgattaaatc aaatcagact gatttttagaa 180
acaaacaaaa aatgctaaat ttattacttg aatactaaaa ctgattttta cataaatatt 240
atactgattt caaaataaaaa atgggttatac ttaattaata ttttaacaatt aagttgttga 300
atacatattt caatattgaa agttttttat acattatttt ctttatgagt tttatatgcc 360
ctcttacatg aggggatcaa aaaacattca gatggataag tgagaggatg caaaaaaatg 420
taggcataaa attacaccat gtgtatggaa aacaatgaat attttattta ccattatttt 480
ctaataataca tccatactca taaattcatt atactttcgt tgatgagaca tcaattttac 540
attcagctaa actctcattg taactgtgta ctttctcaat tataa 585

```

&lt;210&gt; 129

&lt;211&gt; 118

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

```

accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat tctggggctt 60
ggtaaaaaatg gatagataag atagtattct aaattcaaat tcgtggctag gcacagtg 118

```

&lt;210&gt; 130

&lt;211&gt; 1436

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

```

atttcagtat tgagacttaa aatgaactga aaaatgagat tgaacattta atatttttga 60
tgtaactttt gaagaaagta tgcttggtgc ttaaaattgt atatgatttt aggtaagaaa 120
ctttgataat attggcataa ttttagattta ttttctttct tttttttgag acagtctcac 180
tcagtcgccc aggctgaagt gcagtgcacac agtctcagct cactgcaacg tctgcctccc 240
agattgaagt gactctcgtg cctctgccac agagtggctg ggattacagg catgcaccac 300
cacacaccgc taattttttg tattttttgg ggagacggag tttcaccatg ttggccaggc 360
tgcgaaactc tgagctcaag tgatcctccc acctcagctt cccaaagtgc tagcattaca 420
ggcatgagcc accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat 480
tctgggggctt ggtaaaaaat gatagataag atagtattct aaattcaaat tcgtggctag 540

```

```

gcacagtggc ccacacctgt aatcccagca ctttgggatt ccaagacaga agactcactt 600
gagtacagta tgagaccagc ctgggcaaca tagatcttgc ctctacaaaa aaaaaaaaaa 660
atagccagggt gtggcacatg cctgtagtct cagctgcttg gaaggctgaa atgagaggat 720
ctcttgagcc caggaggtct aggccagagt gagctgtgat cgtgccattg gcactccaga 780
ctgagtgaca gagtgagact gtgtctaaaa aaaaagtttg aattaaaaaa aaaaaaaaaa 840
aatgtcgctt gtgcaggggg gctcatgcct gtggacccca gcacttccgg agggccaaca 900
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ccacttgtct ttggccaaag ggtatgcttt accaccgggg aggtcgtcag ccaccaatgt 1380
gctcttaact tagcaaccat gacctcgccg gtctagaaaa cgcattgttt cccacc 1436

```

<210> 131

<211> 178

<212> DNA

<213> Homo sapiens

<400> 131

```

tacatttgat atttgatact gtaaaaagct agctatcaca actgtccata ctagttctct 60
tcgagagaat aagtgttccc tggatagata gatattagtt atagatatta taagttataa 120
ttatagtata agttatatct tcagtcataa atactataag attcagctga gcaagggtg 178

```

<210> 132

<211> 775

<212> DNA

<213> Homo sapiens

<400> 132

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gcatgttcca ccacacctcg ctaattttta acattttttg tcactatgtt cctcagcctg 120
gtctcaaaact cttggcctca accagtcctc cctccttaac ctcccaaagt gttagaatta 180
tgggcatgag ccaccgtgcc tggcctacat ttgatatttg atactgtaa aagctagcta 240
tcacaactgt ccatactagt tctcttcgag agaataagtg ttccctggat agatagatat 300
tagttataga tattataagt tataattata gtataagtta tatcttcagt cataaatact 360
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taaggcagga gtcttacttg gacttaggag tttgagtcta gcctcatagt gataccttgt 480
ctactgaaaa aaaaaaaaaa ttgaaccatt gttccactgt ttatgatttt ttttgtgctt 540
aattcttatt tatgaatttt tgttctagtt ctgtttctag agagaataaa gccagggtga 600
ataactttgt tttctttctg gttttagaat tattagtaac aaatccgtgt tcttaatggc 660
agtagcaaac ctgtcttctg tagaattttt aaagagatgt ttctgtcatt agtaatacag 720
aagaagcctt gatcattttc agaataaaga attttacgac agggagaggt ggctc 775

```

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<210> 133
<211> 535
<212> DNA
<213> Homo sapiens
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```
<220>  
<221> unsure  
<222> (187)  
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (190) .. (219)  
<223> a, c, q or t
```

```
<220>
<221> unsure
<222> (224)
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (228)  
<223> a, c, g or t
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<400> 133						
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ggagaacagg	acaagaatac	ctgacatgac	accagctata	ttatatatgt	gtgtgtatgt	180
atatatnccn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnna	tatntatntg	actatctggt	240
tagccatata	tgaaccaagg	cctgagggaa	gagctgatac	taagaggagg	tttttaaaga	300
tgatttagag	aatgtttata	gaacagtcctg	tatgagagat	ttgagggttt	tgtttggttg	360
gttttgtctt	tggcagtagc	ctgaaaaaac	acataaagag	ttaagaatat	gttttatagg	420
tttgggggaa	gcatcctgta	gagagagtga	atttgaacag	aaaaaagaga	gagggaaagc	480
tggcaaaagc	aagtctgact	cctgatgcaa	aatgcatgag	aagactggat	aaaat	535

```
<210> 134
<211> 579
<212> DNA
<213> Homo sapiens
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<220>  
<221> unsure  
<222> (184)  
<223> a, c, g or t
```

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<220>  
<221> unsure  
<222> (187)..(216)  
<223> a, c, g or t
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```
<220>  
<221> unsure  
<222> (221)  
<223> a, c, g or t
```

```
<220>  
<221> unsure  
<222> (225)  
<223> a, c, g or t
```

<400> 134						
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gaacaggaca	agaataacctg	acatgacacc	agctatatta	tatatgtgtg	tgtatgtata	180
tatnccnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnatat	ntatntgact	atctgggttag	240
ccatatatga	accaaggcct	gagggaagag	ctgatactaa	gaggagggtt	ttaaagatga	300
tttagagaat	gtttatagaa	cagtctgtat	gagagatttg	aggtttttgt	ttggttggtt	360
ttgtcttttg	cagtagcctg	aaaaaacaca	taaagagtta	agaatatgtt	ttatagggtt	420
gggggaagca	tctgttagag	agagtgaatt	tgaacagaaa	aaagagagag	ggaaagctgg	480
caaagcaag	tctgactcct	gatgcaaaat	gcatgagaag	actggataaa	atttccactt	540
gcatgtttat	agcagcatta	atcctaaaag	ccagggcgg			579

```
<210> 135
<211> 503
<212> DNA
<213> Homo sapiens
```

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<220>
<221> unsure
<222> (421)
<223> a, c, g or t
```

<400> 135						
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tttcttcctt	gtgccaatgc	ttggggaggaa	accagagtat	gaacaagaac	tgttttacct	180
tctagtggag	aaaggacaat	ttgcagtggg	aagaatgtgt	gtgtcgtccg	tttgatctgt	240
aaaatgtgaa	ctgcttctgt	agtcttgagg	actgaggaaa	agagatgttg	agtaaaaagtt	300
actgataatt	ccagctattc	aatcttatct	cacttttttc	tctctttttat	ctctgcccaa	360
atacctctac	ttatgcacct	actttgaatt	tgcaacagtg	aaggctgggg	gataggagac	420
ngccagtagt	gctgagtagt	gtcaagtaca	gttaacagtg	aaatgcggat	tttcactcat	480
caaatcaqca	atcttaaaatt	ata				503





<222> (56) . . (187)

<223> a, c, g or t

<400> 138

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnncta	aggagtattc	tagtgaagaa	aatggttgaa	ctttgtttaa	actggtgtat	240
ggcaaacttc	actgttgaaa	tacttattcc	catgacctat	tatctttgta	ggtgggtgaa	300
attgcattgg	gaactgctgc	tataaccaaa	agagaatttc	agtcaccatg	tctggttggt	360
agctatgatg	gaatggcagc	atcatggtct	cagttatgag	tgaaaatctt	tgttgtagct	420
aagtagtggt	gcctcctgag	ttttattaaa	tgccgtttca	ctatctt		467

<210> 139

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (5)

<223> a, c, g or t

**<220>**

<221> unsure

<222> (13)

<223> a, c, g or t

<400> 139

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ataagactct cgtagtatct ctaaaagatt cagtagttat ccactggggtt gatcttcatg 120
ctgtgt                                     126
```

<210> 140

<211> 535

<212> DNA

<213> Homo sapiens

<400> 140

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ccgggcccac	aaggcatcct	ttgaaggatg	aagacaacta	ggaaggctcg	atttctgggt	180
accatgtgaa	cagagaatag	aggggagtca	gggaatactc	agctgtgtca	aaagcagccc	240
ataaatgtca	tcgaggataa	gcactcgaag	atcgttgtcg	ggcttttata	gccacaatg	300
cagaaggтка	ttgcctgctt	ggctaagacc	atttctgtga	aaagaagagg	attttaaact	360
ggaatgggat	gagtagagca	gccttttctg	catttcttcc	tttgctggct	caagagaagc	420

agaaacaaac cctattccca gaactatgct gacaacattg atgatggcag cacacaaatt 480  
 aggaggtaaa caaaacgcca tgttaatttc aggctccatt agaaacacag tcagg 535

<210> 141  
 <211> 960  
 <212> DNA  
 <213> Homo sapiens

<400> 141  
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 gcgattacag gcgtgagcca ctggataagt cattttttaa aagaggttct tatgcttttc 180  
 aaatgtattt actgattgaa aaatgcttct ggagaagatg aatattggta atgaaataat 240  
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 gcaaaaccca tctctgtttc taaaaattgt tgtgacattt caaaacactt tctcacagaa 360  
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 agaaccgagg cccacaaggc atcctttgaa ggatgaagac aactaggaag gctcgatttc 600  
 tgggtaccat gtgaacagag aatagagggg agtcagggaa tactcagctg tgtcaaaagc 660  
 agcccataaa tgtcatcgag gataagcact cgaagatcgt tgtcgggctt ttatagccaa 720  
 caatgcagaa ggtcattgcc tgcttggtta agaccatttc tgtgaaaaga agaggatttt 780  
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<210> 142  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (554)  
 <223> a, c, g or t

<400> 142  
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 tctgtcaagc tagaagaaaa atgtcactaa aataattcaa gacaattttt gtactttcca 180  
 acgatgttca ggtaacagct gaaaatattc tcacttattt gacttgagga agaaaattcg 240  
 aacgaggaaa atcatcaagg atttgctaaa gtcccttctg taaaatcttc ctttaaggaag 300  
 tttaaacact cctattctct cttctctcat tcttttgaac tcaactgcatg tattgatata 360  
 actgacttgg tttgttttct agaatatatg taaaagtaag agtgtgtata tataacccat 420  
 tatgtacata acaagaacag ttccttccaa tattcaaatt tcatgactct agatcactac 480  
 tgtgcattct aagaagggtca gggactcatg gagaccaaag ggtcaatcct ggtcattggt 540

gtctttacgag aganaaaacaa gagc

564

&lt;210&gt; 143

&lt;211&gt; 4906

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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cagaaagtca acaaggatac ccaggaattg aactcagctc tgcaccaagc agacctaata 240
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ttgtcttgaa	ttatttttagt	gacatttttc	ttctagcttg	acagagatct	atataaaagcc	4260
cagagacaag	ccacctgtct	gaataccttt	agtatgtata	atagtagtgg	tacacatgat	4320
aatatcactc	taaacactgg	aggcctctct	tcccacagtt	tgccatgcag	aacatctaat	4380
tctatccatg	agggggccaaa	gccagtgaaa	gcagaaaagg	agtattcacc	acgcagggat	4440
cacagaaaga	actatgagga	ccggggccaga	gagttgggga	caaatagtgt	tcagcccagt	4500
tttagacctg	gcacagtttt	cccatgcaaa	accattcctc	ttcagacttc	tacccttcta	4560
gttcctggcc	tcattttcgt	cctgaccagg	tgttctataa	acacagtcca	ttaaagaaaa	4620
ttcttaatat	atgtccatga	atccccttgg	gtaaatgact	aaagtttcat	actttcatgg	4680
tgacgacctt	ggctatattc	ctggaaagtc	cacatctagt	aaaactcatc	actgtactcc	4740
aaggtaccaa	atagacatgg	aaactaagta	aaagtggttt	gtttgctatt	caagtgtagc	4800
ttccagccaa	gttgctgact	ctcagccact	ctggtataga	cattctggag	ctgccacact	4860
catggctgat	ggtgctcaca	tgctgaagaa	acacagtttg	catcat		4906

<210>	144
<211>	320
<212>	DNA

<213> Homo sapiens

<400> 144

```

aaaagactga ctgaacttaa agaattccaa catctgggag tctggtaggc caaatcagat 60
ctgcagataa gactcaggag tggcttccag agagggtggca ggaatgtgta ctatcatagt 120
aacctgtagt agtttgacta gtagtagctc tgacttgagc aattgggtgg actgaaatgg 180
gaaagattgg aggaggatta aactttgtaa agatattgaa ccagggttca gatatactgt 240
ctggagctta aaagtcttaa gtagtataat aaattacaca gggaaagaat ctagagtagg 300
agccaggtgc agtggcacat                                     320

```

<210> 145

<211> 458

<212> DNA

<213> Homo sapiens

<400> 145

```

gatctagagg atccctaaag gcgagtcggg tacagtggca taataatagc ttactgcagc 60
ctccaactcc tgtgctcaag ggatcctccc acctcagctt cccaagtaat agggaccata 120
ggcatgtgcc actgcacctg gctcctactc tagattcttt ccctgtgtaa tttattatac 180
tacttaagac ttttaagctc cagacagtat atctgaaacc tggttcaata tctttacaaa 240
gtttaatcct cctccaatct ttcccatttc agtaccacca attgctcaag tcagagctac 300
tactagtcaa actactacag gttactatga tagtacacat tcctgccacc tctctggaag 360
ccactcctga gtcttatctg cagatctgat ttggcctacc agactcccag atgttggaat 420
tctttaagtt cagtcagtct ttgcttctct aaaatctt                                     458

```

<210> 146

<211> 115

<212> DNA

<213> Homo sapiens

<400> 146

```

ggaactggtg actgtataag aagaggaaaa aagacctgtg caagcatggt agcatgctca 60
ttctcctccc catgtgatac cccatgttgc cttggaactc tacagaaagt ccctc      115

```

<210> 147

<211> 69

<212> DNA

<213> Homo sapiens

<400> 147

```

gttctatatg aaatagatth aatagatttg gatatttggg tgattttctc tttactatgt 60
tcattagtg                                     69

```

<210> 148

[illegible]

```
<211> 431
<212> DNA
<213> Homo sapiens
```

<400>	148						
tagttcta	gaaataga	tatgtcata	gttctatat	aaatagattt	aatagatttg	60	
gatat	tttggg	tgattttct	tttactatgt	tcattagtga	attacattaa	ttgattttct	120
aatgttga	aatccaac	cggtgta	tgttttttt	ttttgagacg	gagtcctct	gctgtcgccc	180
aggctggag	tgcagtg	gcgcagtg	tatctcgg	ctcactgca	accctctgc	actctaggt	240
tgcattctc	ctgcagc	acgcagtc	ctctgagtag	ctgggattcc	aggcacacac	cgccaccct	300
ggctaattt	tgtatttt	tgtagagac	gggtttacca	cgttgggtcag	gctgggtctc	g	360
aactcctga	cactcatga	tcgcgcg	catcagcct	ccccaa	agtgctggga	ttacaggcat	420
qaccaccaq	c						431

```
<210> 149
<211> 266
<212> DNA
<213> Homo sapiens
```

<400> 149						
tatttttattt	tttattgggtt	acttttaggat	tctaatatgc	ttacctcacc	acagggttact	60
tttaaaggcc	attacgccat	ttaaaatacg	gtataagaac	ctaacaactg	tatacttcca	120
ctttgtccat	ctactttttg	taccatgatt	gtcacacatt	ttacctatgt	tataaatcct	180
tgcttgatca	ctattatttt	tgtttagtca	attattgtat	aaagatat	aaacaataag	240
aaaaatacat	atctacctgc	atagtc				266

```
<210> 150
<211> 300
<212> DNA
<213> Homo sapiens
```

<400> 150						
gctcgaggaa	gcattatgat	acattttattg	tggaagagag	gggtagttta	aacttgtttc	60
atccactgat	gttcttattg	tagctatgat	atttcttaat	ctgataaaac	aatacttata	120
ggcaaacggt	tctcacttat	gtatagatga	aagtatgatt	tatataacct	tgccatacaa	180
tagggaccca	ttaattactg	aagtaattaa	tgttttttga	gatgtctata	atatgttgca	240
gttggtgaag	attttagaaa	gtttttatttc	ggcggggtgt	ggtcgttcac	gcctgtaatc	300

```
<210> 151
<211> 579
<212> DNA
<213> Homo sapiens
```

<220>  
<221> unsure

$\langle 222 \rangle$  (530)

<223> a, c, g or t

<400> 151

tctgctgcg	tcacgctggg	agctgttctt	gttcagccat	cttagctcca	cccaccccat	60
gagagaatat	tcttaaaacc	aaatacgtca	tagaagcatt	atgatacatt	tattgtggaa	120
gagaggggta	gtttaaaactt	gtttcatcca	ctgatgttct	tattgtagct	atgatatttc	180
ttaatctgat	aaaacaatac	ttataggcaa	acgtttctca	cttatgtata	gatgaaagta	240
tgatttatat	aaccttgcca	tacaataggg	accattaat	tactgaagta	attaatgttt	300
tttgagatgt	ctataatatg	ttgcagttgg	tgaagatttt	agaaagtttt	atttcggccg	360
gggtgtggtcg	ttcatgcctg	taatccagca	cttggggagg	ctgaggcggg	tggatcaccg	420
gaggctctgga	gatcaagatc	agccggggcca	acatgggtgg	aaaccccatc	tggaaactaaa	480
aatgacaaaa	aaatttagcg	gggggtggggg	caggttgcct	gtaatccan	gtacttcggg	540
aggctgaggc	aggggaatgg	ctggaacccg	ggaggcagg			579

<210> 152

<211> 882

<212> DNA

<213> Homo sapiens

<400> 152

ccccattatc	agttggttct	cagactctac	cctagtgtcc	agaacagtga	tcaacacaga	60
gcaagtattt	aataagggtt	tgttggcctg	aagtgaacat	cctctcaggg	agggatagac	120
atcaagtgag	aggatgccag	gcaaagggcc	accctagta	acagctgctt	gcatgtgcag	180
agggagtgcc	cgaggaggtg	ggagctctcg	ggggtcacta	gggggcgctg	tgactatgac	240
tggatgccgt	gttcttctctg	caaggatgtg	aggactcagt	ctcaggcagg	tgacaggagt	300
ggagcaatga	acgccaagac	acagctcctg	ctctcctggc	gcttacactc	tggcgtgcag	360
gctgcagggg	tgcagatacg	gtgacaaaac	agtctgggtcc	ccaaacttct	ccttatccct	420
gagaccgccc	cagccatcct	ctgctctgtg	cccaccaca	tgactcagaa	ctttgatccc	480
tacctccatg	tcctgaacag	gcagtttctt	ccacttcaga	agtccccctc	gccctggaaa	540
gctcctactt	taccccgtgt	tccagctcac	gaagctttct	ctggctctcc	agccaaagtt	600
cattgctgcc	ctctccacgc	actcctgctc	tacacagctc	cgctgcacgc	ataagtccaa	660
gctagtgtgt	gtctcccttt	atccagacaa	gactcctcag	ggcgctgacc	aggtcttagt	720
tatcctagcg	tctcccaagc	tgggccttgc	ttgtgcgtac	caggtatctg	aaaaatggct	780
gctggaacaa	aacagaggcc	ggtcaagtgg	aggagattaa	ggttaataag	tgacttcgtg	840
qagaaaagtct	aacatcaggt	gagtggcctg	cacggtggtt	ca		882

<210> 153

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 153

atggagaatc tcaaagcatt cattgtatta agtgaaagaa gccagacacc aaagactata 60  
tataatttcc atttctatta catcctggga aagctaaatc tacaagaaca ggaaacatat 120  
cagtggggcc caggggctgg aggaacatgg gtggagctag aggccattat ccttagcaag 180

```

ctgacacagg aacagaaaaac caaactaagt gggagccaaa taagaagaat atatggacac 240
aaagaggggga acaacagaca ctgggggactg cctgaggatg gagggcagga ggagggagag 300
gatcagaaaa ataactatca gagttgtttg ggagaaccaa gaggtcgtgg ggagagctgg 360
caggaagtgg ctgggcagac cttagaatgt agtaatggga aagctatgct ggcaatttgc 420
agcattcagc cgaatctgga tctggacctc cccttctggg gtctccatgg ggatcaggaa 480
gtcaagaaca gtggttcttc ctgagtcctt ctggggctgg ggtcagcatc tgggcttgct 540
gtgttagata agcctgggca tggcagagat ggcgagatac ccaacaaaaac atttgtgacc 600
tctcagcatt tccggagtga ggagttgtca cttggaggtc acggtgtaga acaacacccc 660
tccaccccat taactgttag gacatataaa acagaacaca gtgaagtgtc aatggttgaa 720
aaggacagta ccacattttc cctactagct ttccctgtca tctctaggag ggtccttcta 780
gggatttcca cttactggaa tcacttaggg atgcccgctg atgcagggac caccatctca 840
aacattgttg gttcccatcg agaagataag aatgagaaag gtgatctcca gttccatcct 900
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tttgtatttt tagtagagac ggggtttcac catgttggcc aggctggctc cgaactcctg 1140
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cgtgcagggc cactcacctg atgttagact ttctccacga agtcacttat taaccttaat 1260
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gcttcgtgag ctggaacacg gggtaaagta ggagctttcc agggcggagg ggacttctga 1560
agtggaggaa actgcctggt caggacatgg aggtagggat caaagttctg agtcatgtgg 1620
gtgggcacag agcagaggat ggctggggcg gtctcaggga taaggagaag tttggggacc 1680
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acccccgaga gctccacct cctcgggcac tccctctgca catgcaagca gctgttacta 1920
ggggtggccc tttgcctggc atcctctcac ttgatgtcta tccctccctg agaggatgtt 1980
cacttcaggc caacaaaccc ttattaaata cttgctctgt gttgatcact gttctggaca 2040
ctagggtaga gtctgagaac caactgataa tggggg 2075

```

<210> 154

<211> 38

<212> PRT

<213> Homo sapiens

<400> 154

Met Tyr Trp Ile Asn Leu Ala Phe Ile His Gln Ile Val Ser Asn Ser

1

5

10

15

Ser Phe Pro Pro Ser Gln Thr Asn Glu Ala Lys Pro Asn Lys Cys Thr

20

25

30

Leu Leu Leu Arg Ser Lys

35



<210> 155  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 155  
 Met Gly Leu Ala Ala Thr Ala Thr Asn Ile Leu Ile Val Ser Asn Thr  
           1                          5                          10                          15  
 Leu Leu Gly Ile Ile Arg Gln Lys Trp Arg Gly  
                           20                          25

<210> 156  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 156  
 Met Ala Cys Arg Gly Gly Thr Ile Asp Ile Thr Met Leu Lys Gly Trp  
           1                          5                          10                          15  
 Pro Trp Leu Val Val Ser Lys Trp Arg Gly Glu Leu Val Leu Pro Trp  
                           20                          25                          30  
 Leu Leu Trp Val Ser Pro Tyr Thr Ser Phe  
                           35                          40

<210> 157  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (75)

<400> 157  
 Met Arg Pro Thr Pro Cys Pro Met Trp Lys Ala Lys Ser Pro Pro Arg  
           1                          5                          10                          15  
 Asp Trp Val Ser Ala Val Arg Glu Leu His Glu Leu Glu Gly Lys Gln  
                           20                          25                          30  
 Thr Glu Arg Ser Gly His Trp Ala Val Ser Arg Leu Pro Ala Pro Arg

35			40			45									
Thr	Glu	Gln	Thr	Val	Thr	Arg	Thr	Ala	Asn	Lys	Ala	Arg	Arg	Glu	Ala
50			55			60									
Leu	Lys	Gly	Gly	Gln	Ser	Gly	Arg	Ala	Leu	Xaa	Leu	Thr			
65			70			75									

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<210> 158
<211> 39
<212> PRT
<213> Homo sapiens
```

```

<400> 158
Thr Leu Cys Cys Pro Gly Ala Ser Ala Thr Val Arg Ser Arg Ile Thr
  1             5             10             15
Ala Ala Ser Asn Ser Trp Leu Gln Ala Leu Leu Leu Pro Arg Pro Pro
      20             25             30
Glu Ala Leu Gly Leu Gln Ala
      35

```

```
<210> 159
<211> 72
<212> PRT
<213> Homo sapiens
```

```

<400> 159
Met Ser Leu Arg Ala Val Val Glu Ala Ala Val Val Ala Val Val Gly
  1                      5                      10                      15

Ala Ala Val Val Ala Val Val Ala Ala Ala Val Val Ser Ala Ser Gly
      20                      25                      30

Ala Ser Ser Ser Ala Gly Pro Val Ala Gly Tyr Val Ser Ala Gly Ala
      35                      40                      45

Ala Val Val Gly Phe Ser Glu Cys Thr Lys His Pro Val Cys Phe Gln
      50                      55                      60

Ser Phe Phe Ser Val Phe Ser Leu
      65                      70

```

<210> 160

<211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 160  
 Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu  
   1                  5                  10                  15  
 Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro  
           20                  25                  30  
 Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala  
       35                  40                  45  
 Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala  
       50                  55                  60  
 Ala Ser Thr Thr Ala Arg Lys Thr Phe Gln Phe  
   65                  70                  75

<210> 161  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Met Glu Arg Gln Ile Asn Ser Asn Asn Leu Gln Ser Asp Thr Ile Arg  
   1                  5                  10                  15  
 Phe Ala Phe Trp Asp Gln Ala Trp Trp Leu Thr  
           20                  25

<210> 162  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 162  
 Leu Ser Leu Phe Phe Cys Leu Phe Phe Leu Arg Arg Ser Leu Pro Leu  
   1                  5                  10                  15  
 Leu Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala Pro Cys Asn Leu  
       20                  25                  30  
 Arg Leu Pro Gly Ser Asn Gly Ser Pro Ala Ser Ala Ser Ala Val Ala  
       35                  40                  45

Gly Ile Thr Gly Arg Asp Tyr Asn Ala Gln Leu Phe Phe Val Phe Leu  
 50 55 60

Val Glu Thr Gly Phe His Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu  
 65 70 75 80

Thr Cys Asp Pro Pro Ala Ser Ala Ser Gln Cys Ala Gly Ile Thr Gly  
 85 90 95

Val Ser His His Ala Trp Pro  
 100

<210> 163

<211> 43

<212> PRT

<213> Homo sapiens

<400> 163

Met Ala Ser Phe Ser Asp Ser Phe Gly Asn Phe Phe Leu Ser Cys Met  
 1 5 10 15

Phe Leu Ser Ile Trp Ser Leu Asn Tyr Ile Cys Val Val Phe Phe Lys  
 20 25 30

Trp Ser Phe Ser Tyr Tyr Met Phe His Ser Lys  
 35 40

<210> 164

<211> 27

<212> PRT

<213> Homo sapiens

<400> 164

Met Asp Ile Lys Tyr Lys Thr Ser Phe Ser Tyr Ser Leu Met Phe Leu  
 1 5 10 15

Trp Leu Ser Phe Pro Leu Lys Gly Trp Phe Cys  
 20 25

<210> 165

<211> 85

<212> PRT

<213> Homo sapiens

<400> 165

Met Arg Pro Leu Cys Arg Thr Thr Lys Val Ile Leu Asn Leu Asn Leu  
1 5 10 15

Gly Val Asn Val Gly Thr Glu Gly Phe Lys Phe Glu Val His Cys Asn  
20 25 30

Ile Gln Gly Leu Pro Ala Tyr Ser Trp His Gly Trp Lys Asp Ala Thr  
35 40 45

Ser Ile Phe Thr Thr Leu Ile Lys Ala Ser Met Ser Gly Glu His Lys  
50 55 60

Met Gln Asn Asn Gly Cys Thr Thr Gly Asn Gly Gly Gln Cys Lys Gly  
65 70 75 80

Thr Pro Ser Phe Glu  
85

<210> 166

<211> 51

<212> PRT

<213> Homo sapiens

<400> 166

Met Ala Pro Ala Ser Arg Glu Gly His Ile Thr Arg Gln Asp Asp His  
1 5 10 15

Ser Tyr Gln Ser Ala Trp Leu Trp Asp Pro Leu Met Met Arg Cys Asn  
20 25 30

Pro Asp Leu Ile Ala Glu Ala Thr Gly Pro Lys Asp Cys Ser Phe Leu  
35 40 45

Leu Gly Cys  
50

<210> 167

<211> 144

&lt;212&gt; PRT

<213> Homo sapiens

<400> 167

Met Cys Gly Leu Ser Arg Gly Ile His Ser Leu Gly Arg Glu Thr Leu  
1 5 10 15

Lys Ala Gly Leu Val Pro Thr Ala Gly Asp Glu Leu Val Glu Gly Leu  
20 25 30

Glu Arg His Ser Ser Gly Cys Thr Gly Gly Cys Gly Ala His Arg Ile  
35 40 45

Gln Gln Arg Arg Thr Gly Ala Ala Arg Glu Gly Phe Trp Glu Glu Leu  
50 55 60

Glu Thr Gln Thr Gly Gln Arg Leu Ala Gly Met Trp Trp Gly Thr Gly  
65 70 75 80

Gly Leu Ser Leu Val Glu Glu Thr Thr Thr Ala Lys Val Glu Asn Pro  
85 90 95

Trp Arg Arg Ser Leu Thr Trp Pro Glu Gln Arg Glu Glu Glu Gly Gln  
100 105 110

His Ser Glu Pro Gly Pro Gln Gly Thr Gly Ala Pro Trp Asn Leu Trp  
115 120 125

Pro Lys Met Arg Asp Ala Thr Lys Gly Glu Phe Tyr Phe Asp Glu Glu  
130 135 140

<210> 168  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (21)..(36)  
<223> a, c, g or t

<400> 168  
Met Trp Ala Ala Ile Cys Ile Ile Phe Val Ile Gln Lys Arg Asp Ile  
1 5 10 15

Lys Leu Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Ile His Leu Phe Arg Trp Glu Cys  
35 40

<210> 169  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 169  
 Met Asn Leu Phe Leu Cys Lys Ser Val Lys Tyr Ser Leu Asn Thr Cys  
   1                  5                  10                  15  
 Val Pro Gln Leu Gly Leu Glu Asn Ala Lys Thr Val Met Ser Ala Glu  
                   20                  25                  30  
 Phe Leu Cys Tyr Lys Val Ser Trp Val Arg His Pro Tyr Arg Ile Glu  
           35                  40                  45  
 Thr Thr Arg Lys  
       50

<210> 170  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Met Cys Phe Ser Gln Ser Trp Gln Lys Gln Leu Thr Ile Leu Val Leu  
   1                  5                  10                  15  
 Thr Val Asn Arg Val Pro Lys Arg Val Tyr Arg Thr Gly Thr His Phe  
                   20                  25                  30  
 Gly Asp Cys Cys Pro Lys Ala Leu Ser Phe Leu Phe Thr His Phe Gly  
           35                  40                  45  
 Val Leu Leu Trp Phe Leu Phe Gln Lys Ile Phe Leu Ser Phe Ile Ile  
       50                  55                  60  
 Leu Phe Leu Ser Ser Val Met Ser Ser  
   65                  70

<210> 171  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 171

Met Leu Arg Arg Tyr Met Pro Phe Ser Leu Ser Phe Ala His Lys Cys  
1 5 10 15

Thr Val Glu Phe Gly His Ser Ile Lys Glu Arg Ile Tyr Gly Leu Ser  
20 25 30

Pro Arg Ala Asn Lys Ile Leu Phe Ala Phe Gln Leu Pro Ile Ser Met  
35 40 45

Ser Phe His Phe Leu His Met Leu Leu Pro  
50 55

<210> 172  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (2)

<220>  
<221> UNSURE  
<222> (4)..(5)

<400> 172  
Met Xaa Ser Xaa Xaa Leu Asn Leu Gly Leu Ile Gly Ser Leu Thr Tyr  
1 5 10 15

Arg Leu Ser Trp Lys Met Ser His Val Tyr Leu Gly Arg Met Cys Ile  
20 25 30

Leu Leu Leu Leu Gly Thr Val Phe Cys Val Pro Trp  
35 40

<210> 173  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 173  
Met Asp Leu Glu Ile Leu Thr Phe Ile Lys Glu Asn Ser Ser Leu Val  
1 5 10 15

Glu Thr Ser Leu Glu Arg Pro Lys  
20



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<210> 174
<211> 69
<212> PRT
<213> Homo sapiens
```

<220>  
<221> UNSURE  
<222> (26)

<220>  
<221> UNSURE  
<222> (68)

```

<400> 174
Met  Pro  Val  Lys  Leu  Leu  Ser  Tyr  Ser  Leu  Pro  Val  Gly  Gly  Ser  Gln
   1                      5                      10                      15

Cys  Glu  Val  Trp  Ser  Pro  Gly  Thr  Arg  Xaa  Thr  Trp  Ala  His  Ser  Leu
          20                      25                      30

His  Thr  Gly  Ala  Gly  Lys  Gly  Gln  Arg  Glu  Leu  Gln  Thr  Gly  Lys  Trp
          35                      40                      45

Met  Val  Trp  Gly  Arg  Ser  Pro  Ala  Pro  Val  Thr  Ser  Cys  Glu  Ser  Leu
   50                      55                      60

Ser  Gln  Thr  Xaa  Gly
   65

```

```
<210> 175
<211> 47
<212> PRT
<213> Homo sapiens
```

```
<400> 175
Met Leu Pro Asn Ile Asp Ile Asp Ser Leu Gly Glu Ile Leu Ser Lys
  1                   5                   10                   15
Tyr Lys Ile Leu His Val Gln Gln Leu Asn Val Ile Asn Glu Phe His
      20                   25                   30
Ile Tyr Leu His Asp Ile Phe Glu Ile Lys Leu Ile Ile Leu Leu
      35                   40                   45
```

<210> 176  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Met Leu Thr Lys Ser Ser His Tyr Leu Phe His Gly Thr Val Glu Ile  
   1                  5                  10                  15  
 Arg His Pro Lys Val Ser Lys Thr Phe Lys Gln Gln Arg Leu Pro Met  
                   20                  25                  30  
 Gln Gly Ile His Trp Gly Lys Gly Gly Ala Gln Val Leu Pro Leu Leu  
           35                  40                  45  
 Cys Asn Met Lys Pro Val Thr Lys Thr Ala Gly Glu Ser Leu Tyr Phe  
       50                  55                  60  
 Thr Leu  
   65

<210> 177  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Phe Phe Phe Phe Leu Ala Arg Trp Gly Leu Ile Met Leu Pro Arg Leu  
   1                  5                  10                  15  
 Val Ser Asn Ser Trp Ala Gln Ala Ile Leu Leu Pro Arg Pro Pro Lys  
           20                  25                  30  
 Met Leu Gly Phe Glu Ala Ala Ala Thr Thr Pro Ser Asp Lys Ser Leu  
       35                  40                  45  
 Phe Phe Lys Ile Ile His Tyr Pro  
       50                  55

<210> 178  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 178  
 Met Ile Ser Gly Asn Glu Glu Leu Asp Phe Ser Leu Glu Phe Ala Ser

1999

1					5					10					15
Thr	Leu	Leu	Trp	Gln	Ile	Ser	Val	Gly	Ser	Leu	Ser	Thr	Leu	Ser	Ala
				20					25					30	
Arg	Gly	Asn	Leu	Phe	Tyr	Gln	Thr	Gly	Cys						
				35					40						

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<210> 179
<211> 31
<212> PRT
<213> Homo sapiens
```

```
<400> 179
Met Tyr Gln Tyr Phe Ile Thr His Gly Val Leu Lys Ile Gln Phe Lys
  1                   5                   10                   15
Asn Thr Val Phe His Met Ser Tyr Lys Val Leu Glu Lys Lys Phe
      20                   25                   30
```

```
<210> 180
<211> 38
<212> PRT
<213> Homo sapiens
```

```

<400> 180
Met Leu Val Met Thr Ile Phe Thr Asn Thr Thr Ser Tyr His Tyr Pro
  1                      5                      10                      15
Leu Lys Leu Thr Val Leu Glu Lys His Ser Asn Trp Asp Ser Ser Ile
      20                      25                      30

```

Lys Gly Asn Leu Val Phe  
35

```
<210> 181
<211> 20
<212> PRT
<213> Homo sapiens
```

```
<400> 181
Met Arg Pro Tyr Glu Arg Thr Pro Ser Asn Ser Pro Pro Gln Tyr Lys
  1             5             10             15
```

Pro Leu Ile Leu



Ser His His Thr Cys Ser Ser Phe Leu Leu Phe Ala Ile Gln His Leu  
100 105 110

Leu Gln Tyr  
115

<210> 184

<211> 53

&lt;212&gt; PRT

<213> Homo sapiens

<400> 184

Met Trp Met Cys Ile Leu Ser Gly Ser Met Ile Phe Pro Gly Pro Glu  
1 5 10 15

Cys Asp Arg Ser Gly Pro Ala Ile Glu Leu Gln Ala His Arg Pro Ala  
20 25 30

Ala Ala Leu Gly Cys Ile Ala Arg Leu Leu Ser Ser Cys Leu Val His  
35 40 45

Met Met Pro Gly Leu  
50

<210> 185

<211> 36

<212> PRT

<213> Homo sapiens

<400> 185

Met Lys Asn Lys Met Thr Leu Leu His Ile Lys Leu Leu Phe Ile Trp  
1 5 10 15

Lys Asn Gln Cys Cys Phe Lys Val Ala Cys Ser Thr Ser Ser Leu Thr  
20 25 30

Tyr Thr Lys Thr  
35

<210> 186

<211> 23

<212> PRT

<213> Homo sapiens

<400> 186

Met Thr Thr Val Leu Ile Asn Val Gly Tyr Gln Lys Ile Pro Arg Ser  
1 5 10 15

His Leu Trp Cys Thr Leu Asn  
20

<210> 187

<211> 57

<212> PRT

<213> Homo sapiens

<400> 187

Met Gln Arg Asn Thr Pro Arg Thr Gly Glu Ser Glu Ser Met Ser Val  
1 5 10 15

Thr Arg Ile Asn Ala Asp Glu Ala Glu Thr Arg Asn Ile Lys Phe Arg  
20 25 30

Ile Ala Ser Ser Arg Arg Ile Lys Val Ile Phe Val Ile Lys Leu Lys  
35 40 45

His Lys Gln Ile Glu His Cys Ile Val  
50 55

<210> 188

<211> 23

<212> PRT

<213> Homo sapiens

<400> 188

Met Asn Cys Arg Arg Thr Arg Trp Arg Ser Val Val Tyr Ser Trp Asp  
1 5 10 15

Leu Ser Leu Val Leu Ala Cys  
20

<210> 189

<211> 40

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (9) . . (10)

<221> UNSURE

<220>

<222> (26)

Met Met Thr Ala Phe Thr Ser Cys Xaa Xaa Thr Lys Tyr Lys Asn Gln

5

15

20

25

30

35

40

<211> 70

&lt;212&gt; PRT

<213> Homo sapiens

Met Asn Asp Gln Thr Cys Gly Leu Pro Cys Ser Ala Val Ser Glu Arg

5

15

20

25

30

35

40

45

50

55

60

65

70

<211> 54

&lt;212&gt; PRT

<400> 191

Met Leu Val Glu Cys Leu Val Asn Asn Glu Ser Tyr Ser Leu Trp Ser  
1 5 10 15

Gln Gly Ser His Lys Pro Thr Gly Gln Ile Leu Cys Ile Leu Val Ser  
20 25 30

Tyr Met Thr Ser Lys Phe Met Asn Leu Leu Asn Ser Phe His Thr Thr  
35 40 45

Gln Asp Ala Ser Phe Trp  
50

<210> 192

<211> 78

<212> PRT

<213> Homo sapiens

<400> 192

Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Ser Leu Gln Pro Pro Pro  
1 5 10 15

Ser Gly Phe Lys Gln Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp  
20 25 30

Tyr Arg Arg Val Pro Pro Arg Pro Ala Asn Phe Ala Ile Phe Ser Arg  
35 40 45

Asp Arg Val Ser Pro His Trp Leu Gly Trp Ser Arg Thr Pro Gly Leu  
50 55 60

Val Phe His Leu Pro Gln Pro Pro Lys Met Leu Gly Leu Gln  
65 70 75

<210> 193

<211> 125

&lt;212&gt; PRT

<213> Homo sapiens

<400> 193

Met Ser Asp Gly Arg Asp Leu Gly Arg Gln Pro Pro Leu Ile Leu His  
1 5 10 15

His Gln Pro Gly Leu Gly Thr Trp Leu Leu Phe Leu Ser Ala Val Ser  
20 25 30

Gly Gly Pro Trp Pro Thr His Lys Pro Phe Cys Gln His Leu Ala Phe



35					40					45						
Gln	Leu	Thr	Ser	Thr	Gln	Gly	Leu	Cys	Asp	Phe	Arg	Arg	Arg	Gln	Leu	
50					55					60						
Gly	Arg	Val	Arg	Ala	Val	Pro	Gly	Arg	Ala	Gln	Thr	Ser	Ala	Gln	Thr	
65					70					75					80	
Ser	Tyr	Pro	Pro	Pro	Thr	Pro	Arg	Pro	Arg	Gly	Phe	Gln	Ser	Asn	Gln	
85					90					95						
His	His	Gln	Ala	Pro	Gly	His	Trp	Lys	Lys	Asn	Leu	Cys	Lys	Glu	Ala	
100					105					110						
Arg	Gly	His	Leu	Arg	Lys	Ser	Arg	Ser	Pro	Lys	Leu	Met				
115					120					125						

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<210> 194
<211> 123
<212> PRT
<213> Homo sapiens
```

<220>  
<221> UNSURE  
<222> (6) .. (35)

[illegible]

Lys Lys Lys Asn Leu Asn Ser Val Thr Trp Ser  
115 120

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<210> 195
<211> 33
<212> PRT
<213> Homo sapiens
```

```

<400> 195
Met Phe Val Leu Asn Thr Ile Leu Ile Asp Ile Tyr Cys Pro Leu His
  1                      5                      10                      15
Thr Cys Glu His Ile Phe Val Phe Glu Tyr Arg Tyr Leu Leu Asn Lys
      20                      25                      30
Ile

```

```
<210> 196
<211> 26
<212> PRT
<213> Homo sapiens
```

```
<400> 196
Met His Phe Gln Arg Arg Lys Asn Glu Asn Leu Ser Phe Lys Met Tyr
  1                      5                      10                      15
Ser Val Met Leu Asn Val Tyr Gly Leu Lys
      20                      25
```

```
<210> 197
<211> 31
<212> PRT
<213> Homo sapiens
```

```
<400> 197
Met Thr Ser Gln Pro Ile Pro Arg Thr Pro Ser Asn Thr Leu Gln Phe
  1                               10                          15
Ala Ile Cys Val Glu Val Arg Arg Leu Val Ile His Lys Ile Thr
      20                      25                      30
```

<210> 198

<211> 22  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (17)

<400> 198  
 Met Lys Leu Ile Ser Gln Lys Ile Ser Ile Lys His Leu Leu Tyr Gly  
 1 5 10 15

Xaa Asn Thr Ala Thr His  
 20

<210> 199  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Arg Val Leu Pro Pro Val Phe Ser Ala Pro Lys Cys Ser Asn Glu  
 1 5 10 15

Lys Pro Met Lys Ser Lys Tyr Ile Ile Tyr Met Leu Lys Tyr Phe Val  
 20 25 30

Ile Ile Lys His  
 35

<210> 200  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Met Leu Leu Tyr Cys Leu His Ile Lys Leu Trp Ala Tyr Phe Cys Val  
 1 5 10 15

Phe Glu Leu Gly Val His Pro Thr His His Val His Phe Gly Tyr Thr  
 20 25 30

Lys Val Phe Thr Leu Pro Ile Ser Arg Glu His Tyr Thr Cys Asn Arg  
 35 40 45

Leu

<210> 201  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 201  
 Met Cys Lys Cys Gly Lys Val Pro Leu Glu Asn Leu Ile Arg Val Val  
 1 5 10 15

<210> 202  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens

<400> 202  
 Met Glu Val Thr Pro Gly Glu Lys Ile Leu Arg Asn Thr Lys Glu Gln  
 1 5 10 15

Arg Asp Leu His Asn Arg Leu Arg Glu Ile Asp Glu Lys Leu Lys Met  
 20 25 30

Met Lys Glu Asn Val Leu Glu Ser Thr Ser Arg Leu Ser Glu Glu Gln  
 35 40 45

Leu Lys Cys Leu Leu Asp Glu Cys Ile Leu Lys Gln Lys Ser Ile Ile  
 50 55 60

Lys Leu Ser Ser Glu Arg Lys Lys Glu Asp Ile Glu Asp Val Thr Pro  
 65 70 75 80

Val Phe Pro Gln Leu Ser Arg Ser Ile Ile Ser Lys Leu Leu Asn Glu  
 85 90 95

Ser Glu Thr Lys Val Gln Lys Thr Glu Val Glu Asp Ala Asp Met Leu  
 100 105 110

Glu Ser Glu Glu Cys Glu Ala Ser Lys Gly Tyr Tyr Leu Thr Lys Ala  
 115 120 125

Leu Thr Gly His Asn Met Ser Glu Ala Leu Val Thr Glu Ala Glu Asn  
 130 135 140

Met Lys Cys Leu Gln Phe Ser Lys Asp Val Ile Ile Ser Asp Thr Lys  
 145 150 155 160

Asp Tyr Phe Met Ser Lys Thr Leu Gly Ile Gly Arg Leu Lys Arg Pro  
165 170 175

Ser Phe Leu Asp Asp Pro Leu Tyr Gly Ile Ser Val Ser Leu Ser Ser  
180 185 190

Glu Asp Gln His Leu Lys Leu Ser Ser Pro Glu Asn Thr Ile Ala Asp  
195 200 205

Glu Gln Glu Thr Lys Asp Ala Ala Glu Glu Cys Lys Glu Pro  
210 215 220

<210> 203  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 203  
Met Val Cys Asp Phe Arg Asp Gln Ile Ile Asn Gly Ile Val Ala Ser  
1 5 10 15

Ala Leu Phe Ser Leu Leu Cys His Ser Leu Trp Gly Lys Ser Ala Asp  
20 25 30

Thr Arg Glu Asp Ala Gln Val Ala Leu Trp Arg Gly Pro Arg Gly Asp  
35 40 45

Gly Leu Arg Leu Ser Pro Ala  
50 55

<210> 204  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 204  
Met Leu Pro Gly Ser Pro Ala Gly Glu Ala Val Ala Gly Trp Gly Val  
1 5 10 15

Ala Pro Cys Gln Leu Pro Trp Ala Trp Asp Cys Arg Gln Pro Pro Pro  
20 25 30

Gly Gly Gly Trp Arg Glu Ala Arg Val Arg Arg Val Arg Lys Ala Ser  
35 40 45

Pro Ala Leu Gly Ser Gly Lys Gly Pro Glu Glu Pro Gly Arg  
 50 55 60

<210> 205  
 <211> 330  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Asn Cys His Arg Met Lys Pro Ala Leu Phe Ser Val Leu Cys Glu Ile  
 1 5 10 15

Lys Glu Lys Thr Val Val Ser Ile Arg Gly Ile Gln Asp Glu Asp Pro  
 20 25 30

Pro Asp Ala Gln Leu Leu Arg Leu Asp Asn Met Leu Leu Ala Glu Gly  
 35 40 45

Val Cys Arg Pro Glu Lys Arg Gly Arg Gly Gly Ala Val Ala Arg Ala  
 50 55 60

Gly Thr Ala Thr Pro Gly Gly Cys Pro Asn Asp Asn Ser Ile Glu His  
 65 70 75 80

Ser Asp Tyr Arg Ala Lys Leu Ser Gln Ile Arg Gln Ile Tyr His Ser  
 85 90 95

Glu Leu Glu Lys Tyr Glu Gln Ala Cys Arg Glu Phe Thr Thr His Val  
 100 105 110

Thr Asn Leu Leu Gln Glu Gln Ser Arg Met Arg Pro Val Ser Pro Lys  
 115 120 125

Glu Ile Glu Arg Met Val Gly Ala Ile His Gly Lys Phe Ser Ala Ile  
 130 135 140

Gln Met Gln Leu Lys Gln Ser Thr Cys Glu Ala Val Met Thr Leu Arg  
 145 150 155 160

Ser Arg Leu Leu Asp Ala Arg Arg Lys Arg Arg Asn Phe Ser Lys Gln  
 165 170 175

Ala Thr Glu Val Leu Asn Glu Tyr Phe Tyr Ser His Leu Asn Asn Pro  
 180 185 190

Tyr Pro Ser Glu Glu Ala Lys Glu Glu Leu Ala Arg Lys Gly Gly Leu  
 195 200 205

Thr Ile Ser Gln Val Ser Asn Trp Phe Gly Asn Lys Arg Ile Arg Tyr  
210 215 220

Lys Lys Asn Met Gly Lys Phe Gln Glu Glu Ala Thr Ile Tyr Thr Gly  
225 230 235 240

Lys Thr Ala Val Asp Thr Thr Glu Val Gly Val Pro Gly Asn His Ala  
245 250 255

Ser Cys Leu Ser Thr Pro Ser Ser Gly Ser Ser Gly Pro Phe Pro Leu  
260 265 270

Pro Ser Ala Gly Asp Ala Phe Leu Thr Leu Arg Thr Leu Ala Ser Leu  
275 280 285

Gln Pro Pro Pro Gly Gly Gly Cys Leu Gln Ser Gln Ala Gln Gly Ser  
290 295 300

Trp	Gln	Gly	Ala	Thr	Pro	Gln	Pro	Ala	Thr	Ala	Ser	Pro	Ala	Gly	Asp
305					310					315					320

Pro Gly Ser Ile Asn Ser Ser Thr Ser Asn  
325 330

```
<210> 206
<211> 72
<212> PRT
<213> Homo sapiens
```

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<220>
<221>  UNSURE
<222>  (3) .. (5)
```

<220>  
<221> UNSURE  
<222> (12)

<220>  
<221> UNSURE  
<222> (17)

<220>  
<221> UNSURE  
<222> (28)

<400> 206

Met Asn Xaa Xaa Xaa Thr Ala Met Leu Ile Ser Xaa Glu Gly Lys Asn  
 1 5 10 15  
 Xaa Gln Gly Asn Cys Lys Lys His Asn Tyr Arg Xaa Tyr Thr Ile Met  
 20 25 30  
 Met Ile Thr Ile His Ala Leu Gln Asn His Arg Tyr Ile Tyr Ile Leu  
 35 40 45  
 Leu Lys Ile His Gln Leu His Trp Ser Ser Thr Tyr Tyr Val Glu Arg  
 50 55 60  
 Lys Tyr Leu Arg Lys Phe Lys Leu  
 65 70

<210> 207  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Met Tyr Ala Leu Ser Val Arg Ala Leu Ser Met Val Thr Ala Leu His  
 1 5 10 15  
 Asp Val Ser Gly His Tyr Ser Asp Gln Lys Lys Gly Gln Tyr Val Leu  
 20 25 30  
 Lys Gly Cys Glu Glu Val Ser Val Ser Trp Cys Thr Trp Thr Arg Glu  
 35 40 45  
 Pro Leu Ile Pro Phe Val Ala Ser Arg His Leu Val Thr Thr  
 50 55 60

<210> 208  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Met Thr Gly Phe Leu Leu Cys Ser Ser Gln Leu Asn Phe Phe Phe Lys  
 1 5 10 15  
 Ile Leu Phe Cys Lys Ser Phe Leu Arg Ser Pro Cys Lys Pro Phe Ala  
 20 25 30  
 Gln Ser



[illegible]

```
<210> 209
<211> 93
<212> PRT
<213> Homo sapiens
```

```

<400> 209
Met  Pro  His  Glu  Gly  Gly  Asp  Leu  Arg  Leu  Ser  Leu  Gly  Arg  Glu  Ala
   1             5             10             15
Lys  Lys  Arg  Cys  Gln  Ala  Ala  His  Gly  Gln  Arg  Cys  Ser  Cys  His  Thr
          20             25             30
Glu  Phe  Ser  Val  Leu  Gly  Ile  Phe  Val  Thr  Lys  Ile  Ala  Glu  Asp  Ser
          35             40             45
Gly  Ser  Tyr  Val  Ala  Cys  Thr  Arg  Gly  Ala  Pro  Ala  Pro  Thr  Val  Pro
          50             55             60
Ala  Gly  Pro  Leu  Lys  Ser  Ala  Ser  Leu  Leu  Ala  Glu  Pro  Ser  Val  Ala
   65             70             75             80
Pro  Trp  Trp  Pro  Arg  Arg  Ser  Pro  Asp  Leu  Ala  Glu  Ser
          85             90

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```
<210> 210
<211> 41
<212> PRT
<213> Homo sapiens
```

```

<400> 210
Phe Phe Ala Asp Thr Arg Ser His Ser Val Ala Ala Ala Gly Val Gln
  1                   5                   10                   15
Trp His Asp Tyr Ser Ser Leu Ala Pro Gln Thr Pro Gly Leu Lys Gln
                20                   25                   30
Ser Ser Cys Leu Ser Pro Leu Ser Ser
          35                   40

```

```
<210> 211
<211> 99
<212> PRT
<213> Homo sapiens
```





Leu Leu Thr Ser Gly Asn Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly  
 115 120 125

Ile Thr Gly Val Ser His His Thr Arg Pro Thr Lys Ser Phe Phe  
 130 135 140

<210> 215  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Met Thr Thr Lys Ile Met Leu Gln Arg Asp Asn Ile Leu Ile Lys Phe  
 1 5 10 15

Cys Val Leu Leu Gln Tyr Leu Val Phe Lys Ile Ser Glu Leu Ser Leu  
 20 25 30

Gln His Phe Thr Asn Asn Lys Trp Leu Met Leu Glu Asn Asn Arg Asn  
 35 40 45

Asp Leu Phe Arg Pro His Val Asn Pro Cys Val Lys Asp Lys Gln Val  
 50 55 60

Phe  
 65

<210> 216  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 216  
 Met Lys Glu Gly Ser Leu Gly Arg Leu Val Tyr Lys Leu Gln Lys Leu  
 1 5 10 15

His Gln Pro His Pro Ser Ser Ser Pro Cys Ser Ser Asn Asn Ile Thr  
 20 25 30

Gly Phe Leu Cys Val Lys Thr Phe Phe  
 35 40

<210> 217  
 <211> 26  
 <212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (5)

**<220>**

<221> UNSURE

<222> (11) .. (16)

<400> 217

Met Pro Lys Arg Xaa Gln Ala Tyr Thr His Xaa Xaa Ala Xaa Xaa Xaa

**1**

5

10

15

Ser Phe Asn Ser His His Gln Phe Val Arg

20

25

<210> 218

<211> 38

<212> PRT

<213> Homo sapiens

<400> 218

Met Phe Val Ile His Val Tyr Val Lys Leu Lys Lys Tyr Thr His Pro

1

5

10

15

Asn Leu Leu Gly Ile Pro Ser Leu Lys Ile Asn Leu Ile Tyr Ile His

20

25

30

Arg Asn Ile Asn Thr Gly

35

<210> 219

<211> 26

<212> PRT

<213> Homo sapiens

<400> 219

Met Val Cys Ser Ile Leu Arg Ala Thr Ser Phe Ala Met Ser Asn Thr

1

5

10

15

Phe Glu Ile His Pro Tyr Phe Ser Val Tyr

20

25

<210> 220

<211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Phe Phe Phe Phe Leu Gly Arg Ser Phe Val Leu Leu Pro Arg Leu Glu  
   1                  5                  10                  15  
 Cys Asn Gly Ala Val Trp Ala His Cys Asn Leu Cys Leu Pro Gly Ser  
           20                  25                  30  
 Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Thr Gly Ala  
           35                  40                  45  
 His His Gln Val Trp Leu Ile Phe Val Phe Leu Val Glu Met Gly Leu  
       50                  55                  60  
 Thr His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Ser Asn Pro  
   65                  70                  75                  80  
 Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His His  
                   85                  90                  95  
 Ala Gln Pro Glu Cys Thr Phe Ile Ala Ala Val  
           100                  105

<210> 221  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Ser Phe Val Leu Phe Val His Leu Phe Leu Ser Val Ala His Ser  
   1                  5                  10                  15  
 Pro Arg Phe Leu Cys Leu Thr Phe Ile His Ser Ala Gly Leu Leu His  
           20                  25                  30  
 His Ser Pro Asn Pro Leu Asp Ala Cys Val Gly Pro Gly Val Asn Ser  
           35                  40                  45  
 Leu Ser Pro Met Val Pro Arg Glu Gly Leu Gly Ser Ser Ala Trp Ser  
       50                  55                  60  
 Gln Ser Leu Pro Thr Arg Tyr Cys Leu Lys Lys  
   65                  70                  75

<210> 222  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (25)

<220>  
 <221> UNSURE  
 <222> (28) .. (50)

<400> 222  
 Met Tyr Tyr Thr Leu Asp Ile Glu Leu Asp Val Phe Pro Ile Ser Glu  
           1                  5                  10                  15  
 His Leu Thr Tyr Thr Lys Ile Leu Xaa His Gly Xaa Xaa Xaa Xaa Xaa  
                   20                  25                  30  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
           35                  40                  45  
 Xaa Xaa Asn Val Lys  
           50

<210> 223  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Met Gly Gly Gly Ala Ser Gln Arg Arg Trp Gln Glu Thr Arg Ala Cys  
           1                  5                  10                  15  
 Gln Gly Cys Thr Leu Cys Phe Tyr Leu Arg Ala Ser Leu Asp Gly Lys  
                   20                  25                  30  
 Thr Asp Gly Asp Cys Gly Leu Asn Ala Ser Asn Pro Leu Leu Lys Met  
           35                  40                  45  
 Thr Thr Gly Cys Ser Thr Ser Thr  
           50                  55

<210> 224













35

40

<210> 237  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 237  
Met Thr Gly Val Phe Ser Glu Ile Ser Glu Arg Pro His Asn Leu Arg  
1 5 10 15  
Leu Asn Lys Glu Gly Ile Arg Ile Gly Asn Thr  
20 25

<210> 238  
<211> 98  
<212> PRT  
<213> Homo sapiens

<400> 238  
Met Leu Ser Leu Asn Thr His Ala Val Gln Pro Gly Gly Pro Phe Ile  
1 5 10 15  
Phe Pro Leu Leu Asn Ser Ser Pro Ser Gln Val Leu Ser Ala Pro Leu  
20 25 30  
Phe Leu Cys Ile Pro Thr Thr Ser Gly Cys Asn Phe Thr Gly Trp Phe  
35 40 45  
Lys His Ser Leu Ser Cys Val Thr Tyr Pro Cys Thr Cys Pro Ser Leu  
50 55 60  
Leu Thr Ile Asn Ser Leu Trp Ala Asp Thr Val Ser Pro Thr Leu Gly  
65 70 75 80  
Pro His Arg Ala Pro Ala Gln Thr Leu Pro Ser Val Leu Leu Leu Thr  
85 90 95  
Ala Thr

<210> 239  
<211> 59  
<212> PRT  
<213> Homo sapiens













20 25 30

Ala Asp Thr Lys Arg Arg Phe Leu Lys Met Ile  
35 40

<210> 252  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 252  
Met Glu Leu Leu Phe Ile Met Lys Ile Pro Lys Ser Ala Ala Glu Ile  
1 5 10 15  
Leu Lys Arg Glu Leu Leu Ile Thr Ile Asn Tyr Thr Ala Gln His Phe  
20 25 30  
Pro Phe Phe Leu Phe Phe Leu Val Pro Met Leu Gly Arg Lys Pro Glu  
35 40 45  
Tyr Glu Gln Glu Leu Phe Tyr Leu Leu Val Glu Lys Gly Gln Phe Ala  
50 55 60  
Val Glu Arg Met Cys Val Ser Ser Val  
65 70

<210> 253  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 253  
Met Val Leu Ile Met Asp Asp Arg Phe Phe Phe Leu Leu Ala Lys Leu  
1 5 10 15  
Glu Val Gly Asn Pro Arg Leu Leu Phe Leu Pro Phe Pro Lys Phe Gln  
20 25 30  
Ser Phe Thr Ser Leu Arg Asn Pro Arg Ile Ser Val Leu Lys Lys Leu  
35 40 45  
Lys Pro Leu Thr Arg Ile Arg Gly Cys Ala  
50 55

<210> 254



<210> 256  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Met Tyr Asn Ser Ser Gly Thr His Asp Asn Ile Thr Leu Asn Thr Gly  
           1                  5                  10                  15  
 Gly Leu Ser Ser His Ser Leu Pro  
                   20

<210> 257  
 <211> 1031  
 <212> PRT  
 <213> Homo sapiens

<400> 257  
 Met Val Lys Gly Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu Asn Ile  
           1                  5                  10                  15  
 Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Val Leu Ser  
                   20                  25                  30  
 Asp Leu Gln Arg Asp Leu Asp Ser His Thr Leu Ile Met Gly Asp Phe  
           35                  40                  45  
 Asn Thr Pro Leu Ser Thr Leu Asp Arg Ser Thr Arg Gln Lys Val Asn  
           50                  55                  60  
 Lys Asp Thr Gln Glu Leu Asn Ser Ala Leu His Gln Ala Asp Leu Ile  
           65                  70                  75                  80  
 Asp Ile Tyr Arg Thr Leu His Pro Lys Ser Thr Glu Tyr Thr Phe Phe  
                   85                  90                  95  
 Ser Ala Pro His His Thr Tyr Ser Lys Ile Asp His Ile Val Gly Ser  
           100                  105                  110  
 Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu Ile Ile Thr Asn Tyr  
           115                  120                  125  
 Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu Arg Ile Lys Asn Leu  
           130                  135                  140



Ile Glu Lys Glu Gly Ile Leu Pro Asn Ser Phe Tyr Glu Ala Ser Ile  
                             405                            410                            415

Ile Leu Ile Pro Lys Leu Gly Arg Asp Thr Thr Lys Lys Glu Asn Phe  
                             420                            425                            430

Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys Ile Leu Asn Lys Ile  
                             435                            440                            445

Leu Ala Asn Arg Ile Gln Gln His Ile Lys Lys Leu Ile His His Asp  
                             450                            455                            460

Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe Asn Ile Arg Lys  
 465                            470                            475                            480

Ser Ile Asn Val Ile Gln His Ile Asn Arg Ala Arg Asp Lys Asn His  
                             485                            490                            495

Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile Gln Gln  
                             500                            505                            510

Pro Phe Met Leu Lys Thr Leu Asn Lys Leu Gly Ile Asp Gly Thr Tyr  
                             515                            520                            525

Phe Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile  
                             530                            535                            540

Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu Lys Thr Gly Thr Arg  
 545                            550                            555                            560

Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn Ile Val Leu Glu Val  
                             565                            570                            575

Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile Gln Leu  
                             580                            585                            590

Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met Ile Leu  
                             595                            600                            605

Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn Leu Leu Lys Leu Ile  
                             610                            615                            620

Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile Asn Val Gln Lys Ser  
 625                            630                            635                            640

Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr Glu Ser Gln Ile Met  
                             645                            650                            655

Ser Glu Leu Pro Phe Thr Ile Ala Ser Lys Arg Val Lys Tyr Leu Gly  
 660 665 670  
 Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys  
 675 680 685  
 Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn Lys Trp Lys Asn Ile  
 690 695 700  
 Pro Cys Ser Trp Val Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu  
 705 710 715 720  
 Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro Ile Lys Leu Pro Met  
 725 730 735  
 Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn  
 740 745 750  
 Gln Lys Arg Ala Arg Ile Ala Lys Ser Ile Leu Ser Gln Lys Asn Lys  
 755 760 765  
 Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Thr  
 770 775 780  
 Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp Ile Asp Gln  
 785 790 795 800  
 Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Pro His Ile Tyr Asn Tyr  
 805 810 815  
 Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly Lys Asp Ser  
 820 825 830  
 Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys Arg Lys  
 835 840 845  
 Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Ile Asn Ser Arg  
 850 855 860  
 Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys Thr Leu Glu  
 865 870 875 880  
 Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Val Asp Lys Asp Phe  
 885 890 895  
 Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Ala Lys Ile Asp Lys  
 900 905 910



Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala Lys Glu Thr Thr  
           915                          920                          925

Ile Arg Val Asn Arg Gln Pro Thr Thr Trp Glu Lys Ile Phe Ala Thr  
           930                          935                          940

Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn Glu Leu Lys  
   945                          950                          955                          960

Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys Trp Ala Lys  
                           965                          970                          975

Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala Ala Lys Lys  
                           980                          985                          990

His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu Met Gln Ile  
           995                          1000                          1005

Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile Ile  
   1010                          1015                          1020

Lys Lys Ser Gly Asn Asn Arg  
  1025                          1030

<210> 258

<211> 24

<212> PRT

<213> Homo sapiens

<400> 258

Met Gly Lys Ile Gly Gly Gly Leu Asn Phe Val Lys Ile Leu Asn Gln  
   1                          5                          10                          15

Val Ser Asp Ile Leu Ser Gly Ala  
           20

<210> 259

<211> 46

<212> PRT

<213> Homo sapiens

<400> 259

Arg Val Gly Tyr Ser Gly Ile Ile Ile Ala Tyr Cys Ser Leu Gln Leu  
   1                          5                          10                          15

Leu Cys Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Val Ile Gly Thr

20                      25                      30  
 Ile Gly Met Cys His Cys Thr Trp Leu Leu Leu Ala Ile Leu  
                     35                      40                      45

<210> 260  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 260  
 Met Gly Tyr His Met Gly Arg Arg Met Ser Met Leu Thr Cys Leu His  
       1                      5                      10                      15

Arg Ser Phe Phe Leu Phe Leu Tyr Ser His Gln Phe  
                     20                      25

<210> 261  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 261  
 Met Asn Ile Val Lys Arg Lys Ser Pro Lys Tyr Pro Asn Leu Leu Asn  
       1                      5                      10                      15

Leu Phe His Ile Glu  
                     20

<210> 262  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 Tyr Val Phe Phe Phe Ala Asp Gly Val Ser Leu Leu Ser Pro Arg Leu  
       1                      5                      10                      15

Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Cys Thr Pro Gly  
                     20                      25                      30

Ser Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Pro Gly  
                     35                      40                      45

Thr His Arg His Pro Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly



